

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{4} + \boxed{2} - \boxed{1} = \boxed{7}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11

Plesch, Martin

Rep: China

Opp: Switzerland

Rev: Germany

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	some	some	some	some	review of sources, cited	partly	partly clear
2	fair	fair	fair	not well fitting	some own input	average	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient
4	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{0.75} + \boxed{1.75} + \boxed{2} - \boxed{1} = \boxed{6}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

1:45 review of literature

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{2.5} + \boxed{2} + \boxed{1.45} + \boxed{1.75} \pm \boxed{1} - \boxed{1} = \boxed{7}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative/ apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2 -

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

+ 5a

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{4} + \boxed{1} - \boxed{1} = \boxed{6}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. _____

sign *Alan Allison*

Allison, Alan

REPORT

hard to follow

phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
almost no	almost no	too few	no/ almost no
some	some	some	some
fair	fair	fair	not well fitting
good	good	well performed, sufficient number	deviations qualitatively analysed
detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

NOTES: *too fast!*

Rep: China

Opp: Switzerland

Rev: Germany

DISCUSSION WITH OPPONENT

relevant arguments/responses	reporter's conduct at the discussion
0 too few	poor
1 some	some aspects fine
many	good
2 + data/theory convincingly supported	some aspects efficient
3 proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{18} + \boxed{28} + \boxed{25} - \boxed{0} = \boxed{8}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0 almost nothing	no or irrelevant	too few	no	poor
1 some main points	few	some	some	reasonable
2 main points	some	some correct	reasonable	fair
3 all relevant points	many	many correct	fair	efficient
4 practically all points	practically all	+ improvement suggestions	very good	+ all time used

NOTES: *start with reports!**literature
come back?
+ compare?*

DISCUSSION WITH REPORTER

relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0 almost no	too few	poor	no
1 few	some	some aspects fine	some
2 some	some correct	good	reasonable
3 good	many correct	some aspects efficient	fair
4 new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{12} + \boxed{2} + \boxed{2} + \boxed{12} - \boxed{2} = \boxed{9}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
 - 1 relevant, meant to clarify unclear points
 - 2 + suitably allotted to Rep & Opp, most time used
 - 3 + short, apt and clear, well prioritized, time managed efficiently
- Still need time to*

REVIEW OF REPORT

report evaluation & understanding	pros & cons	prioritisation
0 poor/wrong	irrelevant	no
1 partial	partially relevant	some
2 good	mostly adequate	reasonable
3 detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

speech evaluation	pros & cons	prioritisation
0 poor/wrong	irrelevant	no
1 too short/long	partially relevant	some
2 informative, apt	mostly adequate	reasonable
3 condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

discussion evaluation	correct own opinions
0 almost no	too few
1 too short/long	some
2 relevant parts	many
3 accurate, conclusive	fully adequate

MISS POINTS

POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES: respond!

Some language issues because too fast.

Please, suitably adjust your grades taking into regard the [1,10] range.

Good focus

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{4} + \boxed{1.25} - \boxed{} = \boxed{6}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11

sign *Marius*

Anghel, Maria

BEST

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/ almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient number	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

Rep: China

Opp: Switzerland

Rev: Germany

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES: *Advanced model, and a lot of work was done experimentally. However, phenomenon was not explained well, some experiments not systematic. Discussion had satisfactory answers.*

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1.75} + \boxed{1.75} + \boxed{2.5} - \boxed{} = \boxed{7}$$

QUESTIONS ASKED

0	too few, mostly irrelevant
1	relevant, aimed at resolving unclear points in the report
2	+ short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES: *Excellent questions! Just missed IOR.*

Opp speech could have been more detailed for pros & cons. Excellent topics, brought light to the report. However, not enough opinions or justification of questions (e.g. why is Mysterious important?)

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1.5} + \boxed{2.5} + \boxed{1.25} + \boxed{1.25} \pm \boxed{0.25} - \boxed{} = \boxed{8}$$

QUESTIONS ASKED

0	too few, mostly irrelevant
1	relevant, meant to clarify unclear points
2	+ suitably allotted to Rep & Opp, most time used
3	+ short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

-1	irrelevant
0	none
1	relevant, constructive

ANSWERS TO JURY QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{3.5} + \boxed{2} - \boxed{0} = \boxed{7}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11sign H. Br.

Balcombe, John

REPORT

phenomenon explanation				theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OPPONENT	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
0	almost no	almost no	too few	no/almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	relevant arguments/responses	reporter's conduct at the discussion	0	concise and correct or no questions asked
1	some	some	some	some	review of sources, cited	partly	partly clear	too few	poor	1	some aspects fine
2	fair	fair	fair	not well fitting	some own input	average	average	many	good	2	+ data/theory convincingly supported
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	3	overall efficient	3	deeply incorrect or show deep misconceptions
4	detailed	quite detailed, correct	results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	proved deep understanding	proven	efficient	-1	some incorrect, inconclusive or too long
5	demonstrative	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	overall efficient	-2	deeply incorrect or show deep misconceptions	
6											
7											

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1.8} + \boxed{3} + \boxed{3.8} - \boxed{0} = \boxed{8}$$

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER				ANSWERS TO JURY and REVIEWER'S QUESTIONS	
		understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation	0	concise and correct or no questions asked
0	too few, mostly irrelevant	almost nothing	no or irrelevant	too few	no	poor	almost no	too few	poor	no	1	some aspects fine
1	relevant, aimed at resolving unclear points in the report	some main points	few	some	reasonable	fair	few	some	some aspects fine	some	2	good
2	+ short, apt and clear, well prioritized, all time used	main points	some	some correct	reasonable	fair	some	some correct	good	reasonable	3	+ improvement suggestions
3	all relevant points	many	many correct	fair	efficient	+	good	many correct	some aspects efficient	fair	4	new crucial point(s)
4	practically all points	practically all	+ improvement suggestions	very good	+	all time used	new crucial point(s)	+ improvement suggestions	overall efficient	very good	-1	deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{2.5} + \boxed{2.5} + \boxed{1} \pm \boxed{0.5} - \boxed{0} = \boxed{9}$$

QUESTIONS ASKED		REVIEW OF REPORT			REVIEW OF OPPOSITION			DISCUSSION ANALYSIS		MISSED POINTS POINTED OUT	ANSWERS TO JURY QUESTIONS
		report evaluation & understanding	pros & cons	prioritisation	speech evaluation	pros & cons	prioritisation	discussion evaluation	correct own opinions	-1	concise and correct or no questions asked
0	too few, mostly irrelevant	poor/wrong	irrelevant	no	poor/wrong	irrelevant	no	almost no	too few	0	some aspects fine
1	relevant, meant to clarify unclear points	partial	partially relevant	some	too short/long	partially relevant	some	too short/long	some	1	good
2	+ suitably allotted to Rep & Opp, most time used	good	mostly adequate	reasonable	informative, apt	mostly adequate	reasonable	relevant parts	many	2	deeply incorrect or show deep misconceptions
3	+ short, apt and clear, well prioritized, time managed efficiently	detailed, complex	fully adequate	good	condensed & accurate	fully adequate	good	accurate, conclusive	fully adequate	1	relevant, constructive

NOTES:

REPORTER
4½
Start from 1 and add/subtract

(7 1/4 rounded down)



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11

sign *Kent Hogan*

Hogan, Kent

$$1 + \text{[redacted]} + \text{V} \frac{3}{4} - \text{[redacted]} = \text{[redacted]}$$

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OPPONENT	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	0 too few	0 X concise and correct or no questions asked
1	some	some	some	some	review of sources, cited	partly	partly clear	1 some	-1 some incorrect, inconclusive or too long
2	fair	fair	fair	not well fitting	some own input	average	average	2 many + data/theory convincingly supported	-2 deeply incorrect or show deep misconceptions
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	3 proved deep understanding	
4	X detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative		
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	complex concepts well communicated		

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + 2 + 3 + 3 - 0 = 9$$

	QUESTIONS ASKED
0	too few, mostly irrelevant
1	relevant, aimed at resolving unclear points in the report
2	X + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	X all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

	ANSWERS TO JURY and REVIEWER'S QUESTIONS
0	X concise and correct or no questions asked
1	some incorrect, inconclusive or too long
2	deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + 1\frac{1}{2} + 2 + 2\frac{1}{2} + 1\frac{1}{2} \pm 0 - 0 = 8$$

(8 ½ rounded down)

	QUESTIONS ASKED
0	too few, mostly irrelevant
1	relevant, meant to clarify unclear points + suitably allotted to Rep & Opp, most time used
2	X + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many

MISSED POINTS POINTED OUT

-1	irrelevant
0	X none
1	relevant, constructive

ANSWERS TO JURY QUESTIONS

	ANSWERS TO JURY QUESTIONS
0	X concise and correct or no questions asked
1	some incorrect, inconclusive or too long
2	deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{4} + \boxed{2} - \boxed{} = \boxed{7}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11

sign

Maciej Lewandowski

Kolwas, Maciej

Rep: China Zhenyu Zhang Opp: Switzerland

Rev: Germany

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication
0	almost no	almost no	too few	no/almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	some	some	some	some	review of sources, cited	partly	partly clear
2	fair	fair	fair	not well fitting	some own input <input checked="" type="checkbox"/>	average	average
3	good	good	well performed, sufficient number <input checked="" type="checkbox"/>	deviations qualitatively analysed <input checked="" type="checkbox"/>	+ some interesting results	some aspects above average <input checked="" type="checkbox"/>	some parts well done <input checked="" type="checkbox"/>
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory <input checked="" type="checkbox"/>	some aspects efficient <input checked="" type="checkbox"/>
4	convincingly supported	
5	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

no dynamics & influence of borders

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{3} + \boxed{3} - \boxed{} = \boxed{8}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable <input checked="" type="checkbox"/>	fair
3	all relevant points <input checked="" type="checkbox"/>	many <input checked="" type="checkbox"/>	many correct <input checked="" type="checkbox"/>	fair	efficient <input checked="" type="checkbox"/>
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used <input checked="" type="checkbox"/>

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct <input checked="" type="checkbox"/>	some aspects efficient <input checked="" type="checkbox"/>	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{3} + \boxed{3} + \boxed{1} \pm \boxed{} - \boxed{} = \boxed{9}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex <input checked="" type="checkbox"/>	fully adequate <input checked="" type="checkbox"/>	good <input checked="" type="checkbox"/>

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable <input checked="" type="checkbox"/>
3	condensed & accurate	fully adequate <input checked="" type="checkbox"/>	good <input checked="" type="checkbox"/>

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts <input checked="" type="checkbox"/>	many <input checked="" type="checkbox"/>
3	accurate, conclusive	fully adequate

MISSED POINTS

POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2 -

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

some unclear calculation & bounded

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{3} + \boxed{3} - \boxed{0} = \boxed{7}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11

Martchenko, Ilya

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/ almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient number	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

Rep: China

Opp: Switzerland

Rev: Germany

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 2 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{2} + \boxed{3} + \boxed{3} - \boxed{0} = \boxed{9}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 2 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{2} + \boxed{1} + \boxed{1} \pm \boxed{0} - \boxed{0} = \boxed{6}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 2 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISS POINTS

	POINTED OUT
-1	irrelevant
0	none
1	relevant, constructive

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{25} + \boxed{15} - \boxed{95} = \boxed{5}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11
Poi
sign

Poier, Peter

Rep: China

Opp: Switzerland

Rev: Germany

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	some	some	some	some	review of sources, cited	partly	partly clear
2	fair	fair	fair	not well fitting	some own input	average	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient
4	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{15} + \boxed{2} - \boxed{0} = \boxed{18}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+
					all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{11} + \boxed{15} + \boxed{11} + \boxed{15} \pm \boxed{0,5} - \boxed{0} = \boxed{7}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{3} + \boxed{1.5} - \boxed{0} = \boxed{6}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11

sign

Shchetnikov, Andrey

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	some	some	some	some	review of sources, cited	partly	partly clear
2	fair	fair	fair	not well fitting	some own input	average	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{1.5} + \boxed{2} - \boxed{0} = \boxed{6}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1.5} + \boxed{2} + \boxed{2} + \boxed{0.5} \pm \boxed{0} - \boxed{0} = \boxed{7}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{3.5} + \boxed{1.5} - \boxed{0} = \boxed{6}$$



SCORESHEET

Fight 6 L, Stage: 1, Problem No. 11sign h-

Wattanakasiwich, Pornrat

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/ almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient number	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

Rep: China

Opp: Switzerland

Rev: Germany

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many + data/theory convincingly supported	good some aspects efficient
3	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

0	X concise and correct or no questions asked
1	some incorrect, inconclusive or too long
-1	deeply incorrect or show deep misconceptions
-2	deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1.5} + \boxed{2} + \boxed{2.5} - \boxed{0} = \boxed{7}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

NOTES:

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

0	X concise and correct or no questions asked
1	some incorrect, inconclusive or too long
-1	deeply incorrect or show deep misconceptions
-2	deeply incorrect or show deep misconceptions

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{1.5} + \boxed{2} + \boxed{1} \pm \boxed{0} = \boxed{6.5} \approx 7$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2 deep misconceptions

ANSWERS TO JURY QUESTIONS

0	X concise and correct or no questions asked
1	some incorrect, inconclusive or too long
-1	deeply incorrect or show deep misconceptions
-2	deeply incorrect or show deep misconceptions

NOTES:

REVIEWER									
OPPONENTS ASKED									
QUESTIONS TO JURY AND ANSWERS TO JURY									
0	too few, mostly irrelevant	REVIEW OF REPORT	REVIEW OF OPPOSITION	DISCUSSION ANALYSIS	MISSING POINTS	ANSWERS TO JURY			
1	+ 2 + 2 + 2 + 2 = 8								

Start from 1 and add/subtract
+ 2 + 2 + 2 + 2 = 8

b1f aggressive

OPPONENT (SPEECH)									
QUESTIONS TO JURY AND ANSWERS TO JURY									
REVIEWERS' QUESTIONS									
0	too few, mostly irrelevant	understanding of relevant topics addressed	own opinions	prioritisation	time management	DISCUSSION WITH REPORTER			
1	+ 2 + 2 + 2 + 2 = 8								

Start from 1 and add/subtract
+ 2 + 2 + 2 + 2 = 8

blocks ?? Decent/Excellent

REPORT									
OPPONENT, AND ANSWERS TO JURY									
REVIEWERS' QUESTIONS									
0	phenomenon explanation theory/model	relevant experiments	task fulfilment	science communication	relevant arguments/responses	conduct at the	disagreements	misunderstood	others' data, incorrectly cited
1	+ 2 + 2 + 2 + 2 = 8								



Start from 1 and add/subtract
+ 2 + 2 + 2 + 2 = 8

Rev: Singapore
Opp: Germany
Rep: Switzerland
Flight 6, Stage: 2, Problem No. _____
SCORSEHEET
Plesch, Martin

1. Dach

NOTES: Nice, clear

QUESTIONS ASKED									
ANSWERS TO JURY		MISSING POINTS		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		REVIEW OF REPORT	
0	too few, mostly irrelevant	relevant evaluation	pros & cons	prioritisation	speECH	discussion	pros & cons	prioritisation	POINTED OUT QUESTIONS
1	+ 15 + 2 + 12 + 14 + 2 + 12 + 0 = 72	Start from 1 and add/subtract							
2	+ short, apt and clear, well prioritized, + suitably allotted to Rep & Opp.	most relevant, meant to clarify unclear points	poor/wrong	irrelevant	too short/long	too short/long	mostly adequate	mostly adequate	deeply managed efficiently
3	+ short, apt and clear, well prioritized, + suitably allotted to Rep & Opp.	relevant, none	poor/wrong	irrelevant	too short/long	too short/long	adequate	adequate	deeply incorrect or show some misconceptions

$$8 = 0 - 2 - 12 + 14 + 2 + 12 + 0 = 72$$

OPPONENT'S QUESTIONS									
ANSWERS TO JURY and REVIEWERS		DISCUSSION WITH REPORTER		DISCUSSION WITH SPEECH		PRESENTATION (SPEECH)		QUESTIONS ASKED	
0	too few, mostly irrelevant	understanding of relevant topics	presented	own opinions	time management	relevant	own opinions	opponents' conduct of the discussion	concrete questions asked
1	+ 14 + 2 + 12 + 0 = 72	Start from 1 and add/subtract							
2	+ short, apt and clear, well prioritized, + unclar points in the report	no or irrelevant	addressed	prioritisation	own opinions	almost no	relevant topics	opponents' conduct of the discussion	concrete questions asked
3	+ short, apt and clear, well prioritized, + all time used	some main points	few	some	some	few	some	some aspects fine	some misconceptions

$$2 = 0 - 1 + 14 + 2 + 12 + 0 = 72$$

REPORT									
ANSWERS TO JURY and REVIEWERS		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		REPORT	
0	almost no	theory and experiment	comparisons between own contributions	task fulfilled	science communication	others, data, incorrectly cited	misunderstood	unclear, chaotic arguments	deep and comprehensive
1	+ 14 + 2 + 12 + 0 = 72	Start from 1 and add/subtract							
2	+ short, apt and clear, well prioritized, + errors analysis	some	far	not well filtering	some own input	review of sources, cited	partly clear	poor	shows physical insight
3	+ short, apt and clear, well prioritized, + theory limits	some	fair	not well filtering	some average	too few	average	some aspects fine	deeply incorrect or show some misconceptions
4	+ short, apt and clear, well prioritized, + results expected	good	fair	well performed	some parts	many	good	good	deeply incorrect, some misconceptions
5	+ short, apt and clear, well prioritized, + theory limits	good	good	sufficient number	above average	many	good	good	deeply incorrect, some misconceptions
6	+ short, apt and clear, well prioritized, + theory limits	good	detailed	some aspects	some parts	well done	overall clear	efficiency	deeply incorrect, some misconceptions
7	+ short, apt and clear, well prioritized, + theory limits	good	detailed	some aspects	some parts	well done	above average	efficiency	deeply incorrect, some misconceptions

Tack Sie

REPORTER									
ANSWERS TO JURY and REVIEWERS		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		REPORTER	
0	almost no	theory and experiment	comparisons between own contributions	task fulfilled	science communication	others, data, incorrectly cited	misunderstood	unclear, chaotic arguments	Allinson, Alan
1	+ 14 + 2 + 12 + 0 = 72	Start from 1 and add/subtract							
2	+ short, apt and clear, well prioritized, + errors analysis	some	fair	not well filtering	some own input	review of sources, cited	partly clear	poor	Figit 6 L, Stage: 2, Problem No. 6
3	+ short, apt and clear, well prioritized, + theory limits	some	fair	not well filtering	some average	too few	average	some aspects fine	Sign
4	+ short, apt and clear, well prioritized, + theory limits	good	fair	well performed	some parts	many	good	good	Sign
5	+ short, apt and clear, well prioritized, + theory limits	good	detailed	some aspects	some parts	well done	above average	efficiency	Sign
6	+ short, apt and clear, well prioritized, + theory limits	good	detailed	some aspects	some parts	well done	overall clear	efficiency	Sign
7	+ short, apt and clear, well prioritized, + theory limits	good	detailed	some aspects	some parts	well done	above average	efficiency	Sign
8	+ short, apt and clear, well prioritized, + theory limits	good	detailed	some aspects	some parts	well done	overall clear	efficiency	Sign



8

NOTES:

IYPT - March 2019

QUESTIONS ASKED									
REVIEW OF REPORT	REVIEW OF OPPONENT	DISCUSSION ANALYSIS	MISSING POINTS	ANSWERS TO JURY QUESTIONS	RELEVANT EVALUATION	PROS & CONS	PRIORITISATION	POINTED OUT OPINIONS	DISCUSSION EVALUATION
0	too few, mostly irrelevant	relevants and addressing	relevant	concrete and correct or no questions asked	0	poor/wrong	irrelevant	no	0
1	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	partial	almost no	0	poor/wrong	irrelevant	no	0
2	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	partial	poor/wrong	0	poor/wrong	irrelevant	no	0
3	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	fully	mosty adequate	1	too short/long	partially relevant	some	1
4	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	fully	mosty adequate	2	too short/long	partially relevant	some	2
5	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	fully	mosty adequate	3	too short/long	partially relevant	some	3
6	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	fully	mosty adequate	4	too short/long	partially relevant	some	4
7	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	deeply managed efficiently	deeply incorrect or too show	2	short, apt and clear, well prioritized	most time used	none	2
8	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	deeply managed efficiently	deeply incorrect or too show	1	short, apt and clear, well prioritized	most time used	none	1
9	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	deeply managed efficiently	deeply incorrect or too show	0	too few, mostly irrelevant	relevants and addressing	relevant	0

QUESTIONS ASKED									
OPPOPOSITION (SPEECH)	DISCUSSION WITH REPORTER	DISCUSSION WITH OPPONENT	ANSWERS TO JURY AND REVIEWERS' QUESTIONS	REVIEWERS' QUESTIONS	UNDERSTANDING OF PRESENTATION	PRESNTATION ADDRESSED	OWN OPINIONS	MANAGEMENT	RELEVANT
0	too few, mostly irrelevant	understanding of presentation	understanding of presentation	understanding of presentation	0	almost nothing	no or irrelevant	the discussion	0
1	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	some main points	some main points	1	too few	no	management	0
2	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	some main points	some main points	2	few	some	management	1
3	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	many main points	many main points	3	some	some	management	2
4	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	practically all points	practically all points	4	good	many correct	management	3
5	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	practically all points	practically all points	5	fair	some correct	management	4
6	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	practically all points	practically all points	6	good	many correct	management	5
7	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	practically all points	practically all points	7	very good	many correct	management	6

REPORT									
OPPONENT	PHENOMENON	THEORY/MODEL	COMPARISON BETWEEN EXPERIMENTS	RELEVANT	DISCUSSION WITH OPPONENT	DISCUSSION WITH THE OPPONENT, AND REVIEWERS' QUESTIONS	ANSWERS TO JURY, REVIEWERS' QUESTIONS	OPPONENT, AND REVIEWERS' QUESTIONS	RELEVANT
0	almost no	almost no	others, data, incorrectly cited	too few	task fulfillment	science communication	argументы/ответы	disagreements/responses	0
1	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	some	no/almost no	own contribution	misunderstood	unclarified, chaotic	conduct at the discussion	1
2	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	some	review of sources, cited	partly	partly clear	too few	partly clear	2
3	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	fair	fair	not well fitting	average	some	some aspects fine	3
4	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	good	well performed,	some own input	average	some	some aspects fine	4
5	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	detailed	detailed, quite detailed	sufficient number	above average	well done	overall clear	5
6	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	demonstrative	demonstrative, errors analysed	some aspects	some parts	many	some aspects fine	6
7	+ 4 + 2 + 15 + 15 - = 6	Start from 1 and add/subtract	deep and comprehensive	comprehensive, errors analysed	some aspects	some parts	many	some aspects fine	7

REPORTER									
SCORING SHEET	FIGHT 6, Stage: 2, Problem No. 6	Signed	REV: Singapore	REV: Germany	REP: Switzerland				
1	+ 4 + 2 + 15 + 15 - = 7	Start from 1 and add/subtract	Angular, Maria	Angular, Maria	Angular, Maria	Angular, Maria	Angular, Maria	Angular, Maria	Angular, Maria



QUESTIONS ASKED		REVIEW OF REPORT		REVIEW OF OPPPOSITION		DISCUSSION ANALYSIS		POINTED OUT		QUESTIONS	
0	too few, mostly irrelevant	pros & cons	prioritisation	pros & cons	evaluation	discussions	correct own	evaluations	opinions	missed points	answers to jury
1	relevant, meant to clarify unclear points	& understanding	speech	evaluations	pros & cons	prioritisation	pros & cons	evaluations	opinions	pointed out	questions
2	+ suitable allotted to Rep & DPP,	irrelevant	no	poor/wrong	irrelevant	no	poor/no	too few	no	concise and correct or	concise and correct or
3	most time used	partial	partially relevant	some	too short/long	partially relevant	too short/long	some	some	no questions asked	no questions asked
4	+ short, apt and clear, well prioritized,	none	none	none	too short/long	mostly adequate	mostly adequate	many	many	inconclusive or too long	inconclusive or too long
5	time managed efficiently	detailed	relevant	good	fully	adequate	adequate	good	good	deeply incorrect or show	deeply incorrect or show

$$8 = 0 + 0.3 + 0.5 + 1 - 0.5$$

Start from 1 and add/subtract
REVIEWER

QUESTIONS ASKED		ANSWERS TO JURY AND REVIEWER'S QUESTIONS						DISCUSSION WITH REPORTER									
OPPOSITION (SPEECH)	UNDERSTANDING OF RELEVANT TOPICS	PRESIDENTIAL ADDRESSED	OWN OPINIONS PRESENTED	PRESIDENTIAL PRIORITY	MANAGEMENT	SCIENTIFIC TOPICS ADDRESSED	OPPONENT'S CONDUCT OF DISCUSSION	PRIORITY	PROFESSIONALISM	TIME	RELEVANT TOPICS ADDRESSED	PRESIDENTIAL PRIORITY	MANAGEMENT	SCIENTIFIC TOPICS ADDRESSED	OPPONENT'S CONDUCT OF DISCUSSION	PRIORITY	
0 - too few, mostly irrelevant	0 - irrelevant, aimed at resolving unclear points in the report	0 - no or irrelevant	0 - almost nothing	0 - no	0 - poor	0 - few	0 - too few	0 - no	0 - no	0 - no	0 - concise and correct or asked	1 - short, apt and clear, well prioritized, all time used	1 - no questions asked	2 - + short, + clear, + well prioritized, + all time used	2 - no questions asked		
1 -	1 - unclear points in the report	1 - some main points	1 - few	1 - some	1 - poor	1 - few	1 - too few	1 - no	1 - no	1 - no	1 - concise and correct or asked	2 - + short, + clear, + well prioritized, + all time used	2 - no questions asked	2 - + short, + clear, + well prioritized, + all time used	2 - no questions asked		
2 -	2 - unclear points in the report	2 - some main points	2 - few	2 - some	2 - poor	2 - few	2 - too few	2 - no	2 - no	2 - no	2 - concise and correct or asked	3 - + short, + clear, + well prioritized, + all time used	3 - no questions asked	3 - + short, + clear, + well prioritized, + all time used	3 - no questions asked		
3 -	3 - unclear points in the report	3 - many relevant points	3 - many	3 - some correct	3 - good	3 - some	3 - some correct	3 - good	3 - reasonable	3 - fair	3 - some	4 - many correct	4 - + improvement	4 - new crucial point(s)	4 - very good	4 - + practically all points	4 - deeply incorrect or show
4 -	4 - unclear points in the report	4 - practically all points	4 - many	4 - many correct	4 - good	4 - some	4 - many correct	4 - good	4 - reasonable	4 - fair	4 - some	4 - + improvement	4 - new crucial point(s)	4 - very good	4 - + practically all points	4 - deeply incorrect or show	

$$8 = 0 - 2 + 3 + 1 + 1$$

Start from 1 and add/subtract

Balcombe, John

REV: Singapore

1

SCORESHEET

$$8 = \boxed{0} - \boxed{2} + \boxed{5} + \boxed{1}$$

NOTES:

IYPT - March 2019

ANSWERS TO JURY QUESTIONS	MISSING POINTS	POINTED OUT	DISCUSSION ANALYSIS	REVIEW OF OPPOSITION	REVIEW OF REPORT	QUESTIONS ASKED
0 - too few, mostly irrelevant	0 - no questions asked	0 - concise and correct or some incorrect,	0 - relevant, meant to clarify unclear points	0 - + 1/2 + 2 + 1/2 + 1 = 7	0 - + 1/2 + 2 + 1/2 + 1/2 + 1 = 7	0 - + 1/2 + 2 + 1/2 + 1 = 7
1 - irrelevant, no questions asked	1 - no questions asked	1 - irrelevant	1 - irrelevant	1 - irrelevant	1 - irrelevant	1 - irrelevant
2 - short, apt and clear, well prioritized, + suitably allotted to Rep & Opp., most time used	2 - no questions asked	2 - no questions asked	2 - no questions asked	2 - no questions asked	2 - no questions asked	2 - no questions asked
3 - time managed effectively	3 - deep misconceptions	3 - deep misconceptions	3 - deep misconceptions	3 - deep misconceptions	3 - deep misconceptions	3 - deep misconceptions

Start from 1 and add/subtract
 $1 + \frac{1}{2} + 2 + \frac{1}{2} + 1/2 + 1 = 7$

Several points raised in speech not discussed

ANSWERS TO JURY AND REVIEWERS' QUESTIONS	DISCUSSION WITH REPORTER	OPPOSITION (SPEECH)	QUESTIONS ASKED
0 - too few, mostly irrelevant	0 - relevant topics addressed	0 - own opinions presented	0 - relevant, aimed at resolving some main points
1 - irrelevant, no or irrelevant	1 - irrelevant	1 - too few	1 - irrelevant
2 - short, apt and clear, well prioritized, + suitably allotted to Rep & Opp., most time used	2 - no questions asked	2 - + improving all points	2 - + improving all points
3 - time managed effectively	3 - deep misconceptions	3 - + improving all points	3 - + improving all points

Start from 1 and add/subtract
 $1 + \frac{1}{2} + 3 + \frac{1}{2} + 2 - 1 = 7$

(7/14 rounded down)

ANSWERS TO JURY, OPPONENTS AND REVIEWERS' QUESTIONS	DISCUSSION WITH OPPONENT	REPORT
0 - no questions no others, data, incorrectly cited	0 - theory and experiment	0 - phenomena explanation
1 - irrelevant	1 - own contributions	1 - theory model
2 - some	2 - some	2 - some
3 - fair	3 - not well fitting	3 - fair
4 - good	4 - well performed, sufficient number	4 - good
5 - quite detailed	5 - + results explained + some interesting results	5 - quite detailed
6 - some	6 - + some interesting results	6 - demonstrates
7 - shows physical insight	7 - + overall limits	7 - demonstrates

Start from 1 and add/subtract
 $1 + 5 + 1\frac{3}{4} - 1 = 8$

(7 9/14 rounded up)

Rev: Singapore
Opp: Germany
Rep: Switzerland
Flight 6 L, Stage: 2, Problem No. 6

SCORING SHEET
Hogan, Kent



NOTES:

NPF - March 2019

REVIEW OF REPORT										DISCUSSION ANALYSIS										ANSWERS TO JURY QUESTIONS										
REVIEW OF OPPOSITION					DISCUSSION ANALYSIS					MISSING POINTS					MISSING POINTS					ANSWERS TO JURY QUESTIONS										
too few, mostly irrelevant	relevant	adequate	good	very good	too short/long	partially relevant	some	poor/wrong	irrelevant	no	almost no	too few	almost no	too short/long	partially relevant	some	poor/wrong	irrelevant	no	too few, mostly irrelevant	relevant	adequate	good	very good	too short/long	partially relevant	some	poor/wrong	irrelevant	no
0	+	-	=	5	0	-	2	+	-	2	0	-	2	0	-	2	+	-	2	0	+	-	2	+	-	2	0	+	-	2
1	+	-	=	5	0	-	2	+	-	2	0	-	2	0	-	2	+	-	2	0	+	-	2	+	-	2	0	+	-	2

REVIEWER Start from 1 and add/subtract
 $5 + 0 - 2 + 2 + 0 = 5$

OPPOSITION (SPEECH)										DISCUSSION WITH REPORTER										ANSWERS TO JURY AND REVIEWER'S QUESTIONS										
understanding of presentation topics	relevant	own opinions	presented	prioritisation	time management	opponents' conduct of discussion	the discussion	prioritisation	opponents' conduct of discussion	own opinions	presented	prioritisation	time management	opponents' conduct of discussion	the discussion	prioritisation	opponents' conduct of discussion	own opinions	presented	prioritisation	time management	opponents' conduct of discussion	the discussion	prioritisation	opponents' conduct of discussion	own opinions	presented	prioritisation	time management	
0	+	-	=	8	0	-	2	+	-	2	0	-	2	0	-	2	+	-	2	0	+	-	2	+	-	2	0	+	-	2
1	+	-	=	1.5	0	-	2	+	-	2	0	-	2	0	-	2	+	-	2	0	+	-	2	+	-	2	0	+	-	2

OPPONENT Start from 1 and add/subtract
 $8 + 0 - 2 + 2 + 0 = 8$

REPORT										DISCUSSION WITH OPPONENT										REVIEWER'S AND OPPONENT'S QUESTIONS										
relevant	task fulfillment	comparisons between theory and experiment	own contributions	theory and experiment	scienece communication	conduct at the argument/responses	discussions	argumemts/responses	scienece communication	task fulfillment	comparisons between theory and experiment	own contributions	theory and experiment	scienece communication	conduct at the argument/responses	discussions	argumemts/responses	scienece communication	task fulfillment	comparisons between theory and experiment	own contributions	theory and experiment	scienece communication	conduct at the argument/responses	discussions	argumemts/responses	scienece communication	task fulfillment		
0	+	-	=	6	0	-	2	+	-	2	0	-	2	0	-	2	+	-	2	0	+	-	2	+	-	2	0	+	-	2
1	+	-	=	5.5	0	-	2	+	-	2	0	-	2	0	-	2	+	-	2	0	+	-	2	+	-	2	0	+	-	2

REPORTER Start from 1 and add/subtract
 $6 + 0 - 2 + 2 + 0 = 6$

Kolwas, Maciej
 Figit 6 L, Stage: 2, Problem No. 6
 Opp: Germany E&E 13 Rev: Singapore C&C 13



NOTES:

YPT-March 2019

REVIEWER		OPPONENT		QUESTIONS ASKED		ANSWERS TO JURY		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		REPORTS EVALUATION	
0	too few, mostly irrelevant	0	too few, mostly irrelevant	0	relevant, meant to clarify unclear points	0	concrete and correct or no questions asked	0	missed points	0	relevant, allotted to Rep & Opp.	0	most time used
1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4
2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,
3	deeply managed efficiently	3	deeply managed efficiently	3	deeply managed efficiently	3	deeply managed efficiently	3	deeply managed efficiently	3	deeply managed efficiently	3	deeply managed efficiently

Start from 1 and add/subtract

$$7 = 0 - 0 + 1 + 2 + 1 + 1 + 1 + 2 + 1 = 6$$

OPPONENT		DISCUSSION WITH REPORTER		ANSWERS TO JURY AND REVIEWERS' QUESTIONS		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		REPORTS EVALUATION		QUESTIONS ASKED	
0	too few, mostly irrelevant	0	understanding of relevant topics	0	understanding of relevant topics	0	opponents' conduct of discussion	0	own opinions	0	presented	0	no questions asked
1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4	1	+ 2 + 4 - 1 = 4
2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,	2	+ short, apt and clear, well prioritized,
3	deeply comprehensible, concise and correct or no questions asked	3	deeply comprehensible, concise and correct or no questions asked	3	deeply comprehensible, concise and correct or no questions asked	3	deeply comprehensible, concise and correct or no questions asked	3	deeply comprehensible, concise and correct or no questions asked	3	deeply comprehensible, concise and correct or no questions asked	3	deeply comprehensible, concise and correct or no questions asked

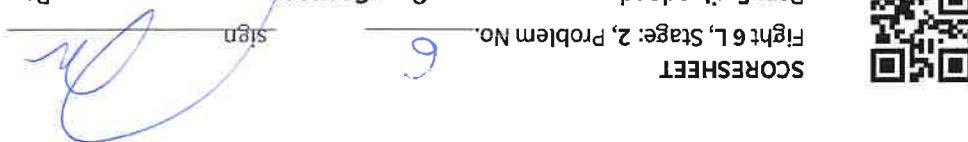
Start from 1 and add/subtract

$$6 = 0 - 0 + 4 + 2 + 1 = 7$$

REPORT		DISCUSSION WITH OPPONENT		ANSWERS TO JURY, REVIEWERS' QUESTIONS		DISCUSSION ANALYSIS		REVIEW OF EXPERIMENT		EXPERIMENTS		PHENOMENON EXPLANATION	
0	almost no	almost no	too few	no/almost no	others', data, incorrectly cited	misunderstood	unclarified, chaotic	task fulfillment	own contributions	theory and experiment	comparisons between	theory model	phenomenon explanation
1	-	-	-	-	-	-	-	fair	some	some	some	some	some
2	-	-	-	-	-	-	-	fair	some	some	some	some	some
3	-	-	-	-	-	-	-	fair	some	some	some	some	some
4	-	-	-	-	-	-	-	good	some	some	some	some	some
5	-	-	-	-	-	-	-	good	some	some	some	some	some
6	-	-	-	-	-	-	-	good	some	some	some	some	some
7	-	-	-	-	-	-	-	good	some	some	some	some	some

Start from 1 and add/subtract

$$7 = 0 - 0 + 4 + 2 + 1 = 7$$



Report: Switzerland
Opp: Germany
Rev: Singapore
Flight 6, Stage: 2, Problem No. 6
Signature

Marchenko, Ilya

REVIEWER										OPPONENT										
ANSWERS TO JURY QUESTIONS		MISSING POINTS		POINTED OUT QUESTIONS		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		REPORT		ANSWERS TO JURY QUESTIONS		MISSING POINTS		POINTED OUT QUESTIONS		DISCUSSION ANALYSIS		
0	too few, mostly irrelevant	relevance	pros & cons	prioritisation	speech	evaluation	pros & cons	priority	correct own	discussions	prioritisation	correct own	discussions	prioritisation	correct own	discussions	prioritisation	speech	evaluation	relevance
1	+ 6 + 2 + 2 = 10	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2
2	+ short, apt and clear, well prioritized, most time used	+ suitable allotted to Rep & Opp., relevant, meant to clarify unclear points	good	partially relevant	some	too short/long	too short/long	mostly adequate	many	relevant parts	mosty adequate	relevant parts	relevant, some	too short/long	too short/long	relevant, some	relevant, some	relevant, some	relevant, some	relevant, some
3	+ short, apt and clear, well prioritized, time managed efficiently	+ short, apt and clear, well prioritized, time managed efficiently	good	fully	fully	too short/long	too short/long	fully	fully	adequate	adequate	adequate	adequate	adequate	adequate	adequate	adequate	adequate	adequate	adequate

REVIEWER										OPPONENT										
ANSWERS TO JURY QUESTIONS		MISSING POINTS		POINTED OUT QUESTIONS		DISCUSSION WITH REPORTER		DISCUSSION WITH SPEECH		OPPONENT'S QUESTIONS		REVIEWER'S QUESTIONS		DISCUSSION WITH REPORTER		DISCUSSION WITH SPEECH		OPPONENT'S QUESTIONS		
0	too few, mostly irrelevant	understanding of relevant topics	own opinions	prioritisation	presented	sciencific topics	presented	opponents conduct of discussion	the discussion	relevant	relevant	concise and correct or no questions asked	concise and correct or no questions asked	understanding of relevant topics	own opinions	prioritisation	presented	sciencific topics	presented	understanding of relevant topics
1	+ 6 + 3 + 3 = 12	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2
2	+ short, apt and clear, well prioritized, alloted to Rep & Opp., relevant, aimed at resolving some main points in the report	+ short, apt and clear, well prioritized, alloted to Rep & Opp., relevant, aimed at resolving some main points in the report	good	some	some	too few	no	poor	no	almost no	almost no	poor	no	some	some	some	fair	many	many	many
3	+ short, apt and clear, well prioritized, alloted to Rep & Opp., relevant, aimed at resolving all relevant points	+ short, apt and clear, well prioritized, alloted to Rep & Opp., relevant, aimed at resolving all relevant points	good	some	some	too few	no	poor	no	almost no	almost no	poor	no	some	some	some	fair	many	many	many
4	+ short, apt and clear, well prioritized, alloted to Rep & Opp., relevant, aimed at resolving new crucial points	+ short, apt and clear, well prioritized, alloted to Rep & Opp., relevant, aimed at resolving new crucial points	very good	some	some	too few	no	poor	no	almost no	almost no	poor	no	some	some	some	fair	many	many	many

REPORT										REVIEWER										
ANSWERS TO JURY QUESTIONS		OPPONENT'S QUESTIONS		DISCUSSION WITH REPORTER		DISCUSSION WITH SPEECH		SCORING SHEET		Fifight 6_L, Stage: 2, Problem No.		Opp: Switzerland		Opp: Singapore		Opp: Germany		Rep: Switzerland		
0	phenomenon explanation	theory/model	relevent experiments	comparisons between theory and experiment	task fulfillment	science communication	rellevant	argumments/responses	conduct at the	others, data, incorrectly cited	no/ almost no	others, data, incorrectly cited	numerical, chaotic	misunderstood	numerical, chaotic					
1	some	some	some	review of sources, cited	too few	average	party clear	too few	poor	partly	partly	partly	partly	average						
2	fair	fair	fair	not well fitting	not well fitting	not well fitting	not well fitting	some aspects	some aspects	above average	some parts	some parts	some parts	some aspects fine						
3	good	good	good	well performed,	sufficient number	sufficient number	sufficient number	intereseting results	intereseting results	above average	well done	many	many	good						
4	detailed	detailed	detailed	quite detailed,	+ results explained	+ theory limits	+ considerabe experiments	convincing support	convincing support	than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected
5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
6	detailed	detailed	detailed	detailed, comprehensive	errors analysed	+ preproduable	explaned, conclusive	convincing analysis	analyzed, conclusive	than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected	more than expected
7	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2



1 + 5 + 2 + 3 + 3 = 12
Start from 1 and add/subtract
Pöller, Peter

NOTES:

NFT - March 2019

QUESTIONS ASKED									
REVIEW OF REPORT									
ANSWERS TO JURY QUESTIONS		MISSING POINTS		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		QUESTIONS ASKED	
0	too few, mostly irrelevant	0	0	0	0	0	0	0	0
1	+ 15 + 15 + 15 = 45	- 15	- 15	- 15	- 15	- 15	- 15	- 15	- 15

Start from 1 and add/subtract
 $8 + 15 - 15 = 8$

OPPOSITION (SPEECH)									
DISCUSSION WITH REPORTER									
ANSWERS TO JURY AND REVIEWERS' QUESTIONS									
0	too few, mostly irrelevant	0	0	0	0	0	0	0	0
1	+ 15 + 15 + 15 = 45	- 15	- 15	- 15	- 15	- 15	- 15	- 15	- 15

Start from 1 and add/subtract
 $7 + 15 - 15 = 7$

REPORT									
DISCUSSION WITH OPPONENT, AND REVIEWERS' QUESTIONS									
ANSWERS TO JURY, REVIEWERS' QUESTIONS									
0	phenomenon explanation	theory/model	relevant experiments	comparisons between own contributions	task fulfillment	science communication	relevant arguments/responses	conduct at the others', data, incorrectly cited	too few, almost no
1	theoretical	fair	some	review of sources, cited	partly	partly clear	too few	misunderstood, unclear, chaotic	almost no
2	theoretical	fair	some	review of sources, cited	average	average	some	some aspects fine	some
3	theoretical	poor	not well fitting	some own input	average	average	some	some parts fine	no questions asked
4	detailed	poor	well performed,	adequate number	some interests results	some aspects	some parts	+ data/theory	+ some incomplete
5	detailed	quite detailed,	adequate number	quite interesting results	some average	some average	many	convincing supportive	incomplete or too long
6	demonstrative	correct	errors analyzed	adequate experimental	of theoretical	than expected	overall done	some aspects	some incomplete
7	deep and comprehensive	detailed, complex	+ reproducible, + predictable, errors analyzed	concrete experimental	of theoretical	than expected	overall done	convincing	deep misconceptions

Start from 1 and add/subtract
 $1 + 4 + 2 + 2 - 2 - 2 = 6$

REPORT	DISCUSSION WITH OPPONENT	DISCUSSION WITH REPORTER	Opp: Singapore	Fight 6, Stage: 2, Problem No.	Sign:
REPORTE	ANSWERS TO JURY, REVIEWERS' QUESTIONS	ANSWERS TO JURY, REVIEWERS' QUESTIONS	Opp: Germany	Opp: Switzerland	Sign:



Start from 1 and add/subtract
 $1 + 4 + 2 + 2 - 2 - 2 = 6$

QUESTIONS ASKED										REVIEW OF REPORT									
DISCUSSION ANALYSIS					MISSING POINTS					ANSWERS TO JURY QUESTIONS					DISCUSSION OUTLINE				
REVIEW OF OPPOSITION		REPORT EVALUATION			PROS & CONS		PRIORITY LISTENING			DISCUSSION EVALUATION		CORRECT OWN OPINIONS			DISCUSSION EVALUATION		PRIORITY LISTENING		
RELEVANT	NON-RELEVANT	IRRELEVANT	RELEVANT	NON-RELEVANT	PROS	CONS	PARTIALLY RELEVANT	RELEVANT	NON-RELEVANT	PROS	CONS	IRRELEVANT	NON-RELEVANT	PROS	CONS	IRRELEVANT	PROS	CONS	RELEVANT
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	+ 1.5	+ 2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	+ 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	+ 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

REPORTER
SCORING SHEET
Fifight 6 L, Stage: 2, Problem No. 6
Rev: Singapore
Opp: Germany
Rep: Switzerland
Signature



OPPOSITION (SPECIFIC)										DISCUSSION WITH REPORTER										
QUESTIONS ASKED					DISCUSSION ANALYSIS					ANSWERS TO JURY AND REVIEWER'S QUESTIONS					DISCUSSION WITH REPORTER					
UNDERSTANDING OF PRIORITY TOPICS		PRESENTED			ADRESSED		PRIORITISATION			OWN OPINIONS		MANAGEMENT			RELEVANT		CENTRIC TOPICS			PRIORITISATION
RELEVANT	NON-RELEVANT	IRRELEVANT	RELEVANT	NON-RELEVANT	PROS	CONS	PARTIALLY RELEVANT	RELEVANT	NON-RELEVANT	PROS	CONS	IRRELEVANT	NON-RELEVANT	PROS	CONS	IRRELEVANT	PROS	CONS	RELEVANT	
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	+ 1.5	+ 2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	+ 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	+ 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

REPORTER
SCORING SHEET
Fifight 6 L, Stage: 2, Problem No. 6
Rev: Watertankaswitsch, Pornerat
Signature

REPORTER
SCORING SHEET
Fifight 6 L, Stage: 2, Problem No. 6
Rev: Watertankaswitsch, Pornerat
Signature

REPORTER
SCORING SHEET
Fifight 6 L, Stage: 2, Problem No. 6
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Signature

REPORTER
SCORING SHEET
Fifight 6 L, Stage: 2, Problem No. 6
Rev: Watertankaswitsch, Pornerat
Signature

QUESTIONS ASKED
REVIEW OF REPORT
DISCUSSION ANALYSIS
MISSING POINTS
ANSWERS TO JURY

$$8 = \boxed{} - \boxed{95} + \boxed{7} + \boxed{2} + \boxed{15} + \boxed{1}$$

Start from 1 and add/subtract

$$6 = \boxed{} + \boxed{} - \boxed{2.8} + \boxed{1.25} + \boxed{0.18} + \boxed{1}$$

Start from 1 and add/subtract

Rep: Germany Opp: Singapore Rev: China



Pleisch, Martin

Well D + R added to the model. All the score

REPORTER		SCORING SHEET		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		QUESTIONS ASKED		
1	+ 42 + 22 - 22 = 7	1	Allison, Alan	Fight 6, Stage: 3, Problem No. 1	All	Opp: Singapore	Rev: China	Opp: Germany	All	Science communication	Conduct at the	Argumets/responses	Others, data, incorrectly cited	Task fulfillment	Own contributions	Theory/model
0	Phenomenon explanation	almost no	almost no	some	some	fair	not well filtering	too few	too few	sciencemunication	science communication	misunderstood	unclar, chaotic	theory and experiment	comparisons between	relevant
1	OPPONENT AND REVIEWERS QUESTIONS	almost no	almost no	some	some	some	review of sources, cited	poor	partly clear	argumets/responses	conduct at the	argumets/responses	others, data, incorrectly cited	task fulfillment	own contributions	theory/model
2	ANSWERS TO JURY	some	some	fair	fair	not well filtering	some own input	some	average	some aspects fine	not applicable	some parts	above average	+ some interesting results	sufficient number	good
3	REVIEWERS QUESTIONS	0	0	0	0	0	too few	poor	poorly	some aspects	well done	well	+ data/theory	some aspects	quite detailed,	good
4	ANSWERS TO JURY AND REVIEWERS QUESTIONS	1	1	1	1	1	some	some	average	some aspects	well	many	+ data/theory	interesting	sufficient number	good
5	OPPONENT	2	2	2	2	2	some	some	some	some aspects	well	many	concrete	concrete	quite detailed,	detailed
6	REVIEWERS QUESTIONS	3	3	3	3	3	fair	fair	fair	fair	fair	many	concrete	concrete	quite detailed,	good
7	NOTES:	7	7	7	7	7	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive

REPORTER		SCORING SHEET		DISCUSSION WITH REPORTER		DISCUSSION WITH REPORTER		DISCUSSION WITH REPORTER		DISCUSSION WITH REPORTER		DISCUSSION WITH REPORTER		REVIEWERS QUESTIONS		ANSWERS TO JURY AND REVIEWERS QUESTIONS		
1	+ 12 + 22 + 22 - 22 = 7	1	Allison, Alan	Fight 6, Stage: 3, Problem No. 1	All	Opp: Singapore	Rev: China	Opp: Germany	All	Science communication	Conduct at the	Argumets/responses	Others, data, incorrectly cited	Task fulfillment	Own contributions	Theory/model	REVIEWERS QUESTIONS	ANSWERS TO JURY AND REVIEWERS QUESTIONS
0	REVIEWERS QUESTIONS	0	0	0	0	0	too few	poor	poor	poor	poor	poor	poor	poor	poor	poor	poor	poor
1	ANSWERS TO JURY AND REVIEWERS QUESTIONS	1	1	1	1	1	some	some	some	some	some	some	some	some	some	some	some	some
2	REVIEWERS QUESTIONS	2	2	2	2	2	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair
3	ANSWERS TO JURY AND REVIEWERS QUESTIONS	3	3	3	3	3	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair
4	REVIEWERS QUESTIONS	4	4	4	4	4	good	good	good	good	good	good	good	good	good	good	good	good
5	NOTES:	5	5	5	5	5	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive
6	REVIEWERS QUESTIONS	6	6	6	6	6	good	good	good	good	good	good	good	good	good	good	good	good
7	NOTES:	7	7	7	7	7	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive

REPORTER		SCORING SHEET		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		QUESTIONS ASKED		
1	+ 42 + 22 - 22 = 7	1	Allison, Alan	Fight 6, Stage: 3, Problem No. 1	All	Opp: Singapore	Rev: China	Opp: Germany	All	Science communication	Conduct at the	Argumets/responses	Others, data, incorrectly cited	Task fulfillment	Own contributions	Theory/model	REVIEWERS QUESTIONS	ANSWERS TO JURY AND REVIEWERS QUESTIONS
0	REVIEWERS QUESTIONS	0	0	0	0	0	too few	poor	poor	poor	poor	poor	poor	poor	poor	poor	poor	poor
1	ANSWERS TO JURY AND REVIEWERS QUESTIONS	1	1	1	1	1	some	some	some	some	some	some	some	some	some	some	some	some
2	REVIEWERS QUESTIONS	2	2	2	2	2	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair
3	ANSWERS TO JURY AND REVIEWERS QUESTIONS	3	3	3	3	3	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair	fair
4	REVIEWERS QUESTIONS	4	4	4	4	4	good	good	good	good	good	good	good	good	good	good	good	good
5	NOTES:	5	5	5	5	5	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive
6	REVIEWERS QUESTIONS	6	6	6	6	6	good	good	good	good	good	good	good	good	good	good	good	good
7	NOTES:	7	7	7	7	7	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive	deep and comprehensive



REPORT									
OPPONENT AND REVIEWERS QUESTIONS									
DISCUSSION WITH OPPONENT									
Answers to jury and reviewers' questions	almost no	almost no	too few	Opp: Singapore	Rep: China	SCORING SHEET	Figure 6 L, Stage: 3, Problem No. A	Sign:	1 + 5.5 + 4 = 7
phenomenon explanation	theory or model	relevant experiments	task fulfillment	science communication	argumets/responses	conduct at the	others, data, incorrectly cited	misunderstood	0 - almost no
Answers to jury and reviewers' questions	some	some	not well fitting	some	average	some aspects fine	too few	poor	0 - no questions asked
REVIEWERS' QUESTIONS	fair	fair	well performed,	some	average	some parts	above average	well done	1 - some incorrect,
REVIEWERS' QUESTIONS	good	good	sufficient number	+ some interesting results	some parts	some parts	above average	good	2 - no questions asked
REVIEWERS' QUESTIONS	detailed	detailed	sufficiently analyzed	+ some interesting results	more often	more often	more often	good	3 - some incorrect,
REVIEWERS' QUESTIONS	detailed	detailed	errors analyzed	+ theory limits	more often	more often	more often	good	4 - no questions asked
REVIEWERS' QUESTIONS	deep and comprehensive,	deep and comprehensive,	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	good	5 - some incorrect,
REVIEWERS' QUESTIONS	deep and comprehensive,	deep and comprehensive,	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	good	6 - no questions asked
REVIEWERS' QUESTIONS	deep and comprehensive,	deep and comprehensive,	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	good	7 - no questions asked

OPPONENT (SPEECH)									
QUESTIONS TO JURY AND REVIEWERS									
DISCUSSION WITH REPORTER									
Answers to jury and reviewers' questions	0	relatively irrelevant	presented	prioritisation	own opinions	management	scientific topics	presented	0 - almost nothing
REVIEWERS' QUESTIONS	0	almost nothing	no or irrelevant	too few	no	poor	too few	poor	0 - no questions asked
REVIEWERS' QUESTIONS	0	almost nothing	no or irrelevant	too few	no	poor	almost no	poor	0 - no questions asked
REVIEWERS' QUESTIONS	1	some main points	few	some	some	reasonable	few	poor	1 - some incorrect,
REVIEWERS' QUESTIONS	2	main points	some	some	some	reasonable	some	some aspects fine	2 - no questions asked
REVIEWERS' QUESTIONS	3	all relevant points	many	many	many	correct	some	some aspects fine	3 - some incorrect,
REVIEWERS' QUESTIONS	4	practically all points	all	+ improvement	very good	all time used	new crucial	+ improvement	4 - no questions asked
REVIEWERS' QUESTIONS	5	practically all points	all	+ improvement	far	efficent	good	some aspects fine	5 - some incorrect,
REVIEWERS' QUESTIONS	6	practically all points	all	+ improvement	far	efficent	good	some aspects fine	6 - no questions asked
REVIEWERS' QUESTIONS	7	practically all points	all	+ improvement	far	efficent	good	some aspects fine	7 - no questions asked

REVIEWER									
QUESTIONS ASKED									
ANSWERS TO JURY									
relevant evaluation	too few, mostly irrelevant	REVIEW OF OPPOSITION	REVIEW OF OPPOSITION	DISCUSSION ANALYSIS	MISSING POINTS	MISSING POINTS	QUESTIONS	QUESTIONS	0 - no questions asked
REVIEWERS' QUESTIONS	0	relevant evaluation	too few, mostly irrelevant	pros & cons	prioritisation	evaluation	discussions	prioritisation	0 - no questions asked
REVIEWERS' QUESTIONS	1	irrelevant	irrelevant	poor/wrong	poor/wrong	too short/long	too short/long	too few	1 - some incorrect,
REVIEWERS' QUESTIONS	2	partially relevant	partially relevant	poor/wrong	irrelevant	some	almost no	no	2 - no questions asked
REVIEWERS' QUESTIONS	3	most relevant	most relevant	good	good	mostly adequate	relevant parts	many	3 - some incorrect,
REVIEWERS' QUESTIONS	4	fully relevant	fully relevant	good	good	fully	relevant,	relevant,	4 - no questions asked
REVIEWERS' QUESTIONS	5	practically all relevant	practically all relevant	good	good	practically all	adequate	adequate	5 - no questions asked
REVIEWERS' QUESTIONS	6	practically all relevant	practically all relevant	good	good	practically all	adequate	adequate	6 - no questions asked
REVIEWERS' QUESTIONS	7	practically all relevant	practically all relevant	good	good	practically all	adequate	adequate	7 - no questions asked

REPORTER									
QUESTIONS ASKED									
ANSWERS TO JURY									
phenomenon explanation	almost no	almost no	too few	Opp: Singapore	Rep: China	SCORING SHEET	Fifth 6 L, Stage: 3, Problem No. A	Sign:	1 + 5.5 + 4 = 7
REVIEWERS' QUESTIONS	0	almost no	almost no	own contributions	task fulfillment	science communication	argumets/responses	conduct at the	0 - no questions asked
REVIEWERS' QUESTIONS	1	some	some	not well fitting	some	average	some aspects fine	some parts	1 - no questions asked
REVIEWERS' QUESTIONS	2	some	some	review of sources, cited	partly	partly clear	average	some aspects fine	2 - no questions asked
REVIEWERS' QUESTIONS	3	fair	fair	well performed,	some	average	above average	some parts	3 - no questions asked
REVIEWERS' QUESTIONS	4	good	good	sufficient number	+ some interesting results	more often	more often	more often	4 - no questions asked
REVIEWERS' QUESTIONS	5	detailed	detailed	sufficiently analyzed	+ theory limits	more often	more often	more often	5 - no questions asked
REVIEWERS' QUESTIONS	6	detailed	detailed	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	6 - no questions asked
REVIEWERS' QUESTIONS	7	deep and comprehensive,	deep and comprehensive,	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	7 - no questions asked

REPORTER									
QUESTIONS ASKED									
ANSWERS TO JURY									
phenomenon explanation	almost no	almost no	too few	Opp: Singapore	Rep: China	SCORING SHEET	Fifth 6 L, Stage: 3, Problem No. A	Sign:	1 + 5.5 + 4 = 7
REVIEWERS' QUESTIONS	0	almost no	almost no	own contributions	task fulfillment	science communication	argumets/responses	conduct at the	0 - no questions asked
REVIEWERS' QUESTIONS	1	some	some	not well fitting	some	average	some aspects fine	some parts	1 - no questions asked
REVIEWERS' QUESTIONS	2	some	some	review of sources, cited	partly	partly clear	average	some aspects fine	2 - no questions asked
REVIEWERS' QUESTIONS	3	fair	fair	well performed,	some	average	above average	some parts	3 - no questions asked
REVIEWERS' QUESTIONS	4	good	good	sufficient number	+ some interesting results	more often	more often	more often	4 - no questions asked
REVIEWERS' QUESTIONS	5	detailed	detailed	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	5 - no questions asked
REVIEWERS' QUESTIONS	6	detailed	detailed	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	6 - no questions asked
REVIEWERS' QUESTIONS	7	deep and comprehensive,	deep and comprehensive,	comprehensive, errors analyzed	+ theory limits	more often	more often	more often	7 - no questions asked

NOTES:

IPT - March 2019

QUESTIONS ASKED									
REVIEWER									
ANSWERS TO JURY QUESTIONS	MISSING POINTS	DISCUSSION ANALYSIS	REVIEW OF OPPOSITION	REPORT					
0 - too few, mostly irrelevant	0	relevance evaluation	pros & cons	prioritisation	speECH	POINTED OUT	ANSWERS TO JURY QUESTIONS		
1 + 5.0 + 2.7 + 2.1 + 1.8 + 1.0 = 18	= 18	too few, mostly irrelevant	poor/wrong	irrelevant	too short/long	partially relevant	almost no	no	most time used
2 + short, apt and clear, well prioritized, + suitably allotted to Rep & Opp.	0	poor/wrong	poor/wrong	irrelevant	too short/long	partially relevant	some	yes	most time used to clarify unclear points
3 + apt and clear, well prioritized, time managed efficiently	3	too few, mostly irrelevant	poor/wrong	irrelevant	too short/long	partially relevant	some	yes	time managed efficiently

Start from 1 and add/subtract

$$6 = 0 - 0.3 + 0.5 + 2.7 + 2.1 + 1.8 + 1.0 = 18$$

OPPOSITION ASKED									
REVIEWER'S QUESTIONS									
ANSWERS TO JURY AND REVIEWER'S QUESTIONS	PRIORITISATION	DISCUSSION WITH REPORTER	OPPOSITION (SPECIFIC)	REPORT					
0 - too few, mostly irrelevant	0	understanding of relevant topics	own opinions	time management	opponent's conduct of discussion	the discussion	presented	scientific topics	almost no or irrelevant
1 + 1 + 2.5 + 2.0 - 2.0 = 5.5	= 5.5	understanding of relevant topics	adequately addressed	presented	opponent's conduct of discussion	the discussion	presented	scientific topics	almost no or irrelevant
2 + short, apt and clear, well prioritized, + underlined points in the report	2	understanding of relevant topics	too few	no	almost no	too few	poor	poor	some main points
3 + short, apt and clear, well prioritized, + underlined points in the report, + short, apt and clear, well prioritized, all time used	3	understanding of relevant topics	too few	no	almost no	too few	poor	poor	many main points

Start from 1 and add/subtract

$$7 = 0 - 2 + 1 + 2.5 + 2.0 - 2.0 = 5.5$$

OPPOSED									
REVIEWER'S QUESTIONS									
ANSWERS TO JURY, OPPONENT'S QUESTIONS	DISCUSSION WITH OPPONENT	DISCUSSION WITH REPORTER	OPPOSITION (SPECIFIC)	REPORT					
0 - too few, mostly irrelevant	0	understanding between theory/model	task fulfillment	science communication	argumments/responses	conduct at the	others' data, incorrectly cited	misunderstood	almost no or
1 + 4 + 2 - 2 = 4	= 4	understanding between theory/model	own contributions	task fulfillment	argumments/responses	conduct at the	others' data, incorrectly cited	misunderstood	almost no or
2 + short, apt and clear, well prioritized, + underlined points in the report	2	understanding between theory/model	some	not well fitting	review of sources, cited	partly clear	too few	poor	some
3 + short, apt and clear, well prioritized, + underlined points in the report	3	understanding between theory/model	fair	not well fitting	review of sources, cited	partly clear	too few	poor	some
4 + short, apt and clear, well prioritized, + underlined points in the report	4	understanding between theory/model	good	well performed,	some own input	average	some	some aspects fine	good
5 + short, apt and clear, well prioritized, + underlined points in the report	5	understanding between theory/model	detailed	detailed	some interesting results	above average	many	some aspects fine	good
6 + short, apt and clear, well prioritized, + underlined points in the report	6	understanding between theory/model	detailed	detailed	some interesting results	above average	many	some aspects fine	good
7 + short, apt and clear, well prioritized, + underlined points in the report	7	understanding between theory/model	detailed, comprehensive	detailed, comprehensive	some interesting results	above average	many	some aspects fine	good

Start from 1 and add/subtract

$$7 = 4 + 2 - 2 = 4$$

REPORT

REVIEWER'S QUESTIONS

DISCUSSION WITH OPPONENT

DISCUSSION WITH REPORTER

OPPOSITION (SPECIFIC)

REPORT

Fight 6 L, Stage: 3, Problem No. 1

Sign: Balcombe, John

Opp: Singapore

Rep: Germany

Rev: China

ScoreSheet

Scoring

Signature

QR code

Sette meddelelse/periphere/points raised, WAY too fast - difficult to follow

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QUESTIONS ASKED									
REVIEW OF REPORT		REVIEW OF OPPOSITION		DISCUSSION ANALYSIS		MISSING POINTS		ANSWERS TO JURY QUESTIONS	
report/wrong	irrelevant	poor/wrong	partially relevant	pros & cons	priority	discussions	evaluation	correct own	concrete and correct or no questions asked
0	too few, mostly irrelevant	& underestimating	poor evaluation	pros & cons	priority	discussions	evaluation	correct own	concrete and correct or no questions asked
1	+ 1	+ 2	+ 1/4	+ 1/4	- 1/4	= 7	Start from 1 and add/subtract		

OPPOSITION (SPEECH)									
QUESTIONS TO JURY AND REVIEWERS'S QUESTIONS		DISCUSSION WITH REPORTER		DISCUSSION WITH OPPOSITION		own opinions		time management	
understanding of	relevant topics	addressed	prioritisation	presented	sciencific topics	presented	own opinions	prioritisation	opponents conduct of
0	too few, mostly irrelevant	& almost nothing	no or irrelevant	too few	almost no	too few	own opinions	presented	the discussion
1	+ 1/2	+ 2/12	+ 1/2	- 1/2	= 8	Start from 1 and add/subtract			

REPORT									
OPPONENT, and REVIEWERS'S QUESTIONS		DISCUSSION WITH OPPOSITION		DISCUSSION WITH REPORTER		comparisons between		phenomenon explanation	
theory/model	relevancy	task fulfillment	own contributions	science communication	argumets/responses	conduct at the	argumets/responses	others' data, incorrectly cited	theory and experiments
0	almost no	almost no	too few	some	not well fitting	average	some aspects fine	no/ almost no	relevancy and experiments
1	+ 1	+ 2	- 1/2	- 1/2	= 5	Start from 1 and add/subtract			

REPORTER									
REPOERTER		SCORING SHEET		REPOERTER		SCORING SHEET		REPOERTER	
Fight 6, Stage: 3, Problem No.	1	Hogan, Kent	Re: Singapore	Re: China	Re: Germany	Re: Singapore	Re: China	Re: Germany	Re: Singapore
1	+ 5	+ 2	- 2	- 2	= 8	Start from 1 and add/subtract			



REVIEW OF REPORT										DISCUSSION ANALYSIS										MISSING POINTS									
REPORTER		OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION ANALYSIS		MISSING POINTS		ANSWERS TO JURY QUESTIONS																			
0	too few, mostly irrelevant	0	too few, mostly irrelevant	0	relevant	0	own contributions	0	task fulfillment	0	comparisons between theory and experiment	0	phenomenon explanation	0	theory / model	0	relevant	0	others, data, incorrectly cited	0	review of sources, cited	0	documents / responses	0	conduct at the discussion	0	ANSWERS TO JURY QUESTIONS	0	
1	some	1	fair	1	not well filtering	1	some own input	1	average	1	some aspects	1	good	1	well performed	1	detailed	1	+ results explaining + some interesting number	1	+ theory limits	1	+ data/theory	1	+ data/theory	1	democratic	1	
2	some	2	fair	2	not well filtering	2	some own input	2	average	2	some aspects	2	good	2	well performed	2	detailed	2	+ results explaining + some interesting number	2	+ theory limits	2	+ data/theory	2	+ data/theory	2	democratic	2	
3	fair	3	fair	3	not well filtering	3	some own input	3	average	3	some aspects	3	good	3	well performed	3	detailed	3	+ results explaining + some interesting number	3	+ theory limits	3	+ data/theory	3	+ data/theory	3	democratic	3	
4	good	4	good	4	well filtering	4	some own input	4	average	4	some aspects	4	good	4	well performed	4	detailed	4	+ results explaining + some interesting number	4	+ theory limits	4	+ data/theory	4	+ data/theory	4	democratic	4	
5	good	5	good	5	well filtering	5	some own input	5	average	5	some aspects	5	good	5	well performed	5	detailed	5	+ results explaining + some interesting number	5	+ theory limits	5	+ data/theory	5	+ data/theory	5	democratic	5	
6	good	6	good	6	well filtering	6	some own input	6	average	6	some aspects	6	good	6	well performed	6	detailed	6	+ results explaining + some interesting number	6	+ theory limits	6	+ data/theory	6	+ data/theory	6	democratic	6	
7	good	7	good	7	well filtering	7	some own input	7	average	7	some aspects	7	good	7	well performed	7	detailed	7	+ results explaining + some interesting number	7	+ theory limits	7	+ data/theory	7	+ data/theory	7	democratic	7	

DISCUSSION WITH REPORTER										DISCUSSION ANALYSIS										MISSING POINTS										ANSWERS TO JURY QUESTIONS
REPORTER		OPPONENT		DISCUSSION WITH REPORTER		DISCUSSION ANALYSIS		MISSING POINTS		ANSWERS TO JURY QUESTIONS																				ANSWERS TO JURY QUESTIONS
0	0	0	0	0	relevant	0	own contributions	0	task fulfillment	0	comparisons between theory and experiment	0	phenomenon explanation	0	theory / model	0	relevant	0	others, data, incorrectly cited	0	review of sources, cited	0	documents / responses	0	conduct at the discussion	0	ANSWERS TO JURY QUESTIONS	0		
1	1	1	1	1	not well filtering	1	some own input	1	average	1	some aspects	1	good	1	well performed	1	detailed	1	+ results explaining + some interesting number	1	+ theory limits	1	+ data/theory	1	+ data/theory	1	democratic	1		
2	2	2	2	2	not well filtering	2	some own input	2	average	2	some aspects	2	good	2	well performed	2	detailed	2	+ results explaining + some interesting number	2	+ theory limits	2	+ data/theory	2	+ data/theory	2	democratic	2		
3	3	3	3	3	not well filtering	3	some own input	3	average	3	some aspects	3	good	3	well performed	3	detailed	3	+ results explaining + some interesting number	3	+ theory limits	3	+ data/theory	3	+ data/theory	3	democratic	3		
4	4	4	4	4	well filtering	4	some own input	4	average	4	some aspects	4	good	4	well performed	4	detailed	4	+ results explaining + some interesting number	4	+ theory limits	4	+ data/theory	4	+ data/theory	4	democratic	4		
5	5	5	5	5	well filtering	5	some own input	5	average	5	some aspects	5	good	5	well performed	5	detailed	5	+ results explaining + some interesting number	5	+ theory limits	5	+ data/theory	5	+ data/theory	5	democratic	5		
6	6	6	6	6	well filtering	6	some own input	6	average	6	some aspects	6	good	6	well performed	6	detailed	6	+ results explaining + some interesting number	6	+ theory limits	6	+ data/theory	6	+ data/theory	6	democratic	6		
7	7	7	7	7	well filtering	7	some own input	7	average	7	some aspects	7	good	7	well performed	7	detailed	7	+ results explaining + some interesting number	7	+ theory limits	7	+ data/theory	7	+ data/theory	7	democratic	7		

SCORESHEET										DISCUSSION WITH OPPONENT										DISCUSSION ANALYSIS										ANSWERS TO JURY QUESTIONS
REPORTER		OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION ANALYSIS		MISSING POINTS		ANSWERS TO JURY QUESTIONS																				ANSWERS TO JURY QUESTIONS
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8



1 + 4.5 + 2.5 - 2.5 = 8

Start from 1 and add/subtract

REPORTER										DISCUSSION WITH OPPONENT										DISCUSSION ANALYSIS										ANSWERS TO JURY QUESTIONS
REPORTER		OPPONENT		DISCUSSION WITH OPPONENT		DISCUSSION ANALYSIS		MISSING POINTS		ANSWERS TO JURY QUESTIONS																				ANSWERS TO JURY QUESTIONS
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

Kowalski, Maciej
Figit 6 L, Stage: 3, Problem No. 01
Rep: Singapore
Rev: China
Sign:

NOTES:

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REVIEWER										OPPONENT									
QUESTIONS ASKED					DISCUSSION ANALYSIS					MISSING POINTS					ANSWERS TO JURY				
POINTED OUT		DISCUSSION		EVALUATION	PROS & CONS		PRIORITY		DISCUSSION		EVALUATION		PROS & CONS		PRIORITY		REPORT		REVIEW OF OPPOSITION
too few, mostly irrelevant	too many	understanding	partial	irrelevant	poor/wrong	poor/wrong	partial	irrelevant	almost no	too short/long	too short/long	too few	poor/wrong	poor/wrong	partial	irrelevant	too few, mostly irrelevant	too few, mostly irrelevant	
+/-	+/-	+/-	+/-	+/-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Start from 1 and add/subtract
 1 + 2 + 2 + 2 + 2 + 2 = 10

REVIEWER'S QUESTIONS										OPPONENT'S QUESTIONS									
DISCUSSION WITH REPORTER					DISCUSSION WITH REPORTER					DISCUSSION WITH OPPONENT					DISCUSSION WITH OPPONENT				
UNDERSTANDING OF		RELEVANT TOPICS		ADDRESSED	OWN OPINIONS		PRESENTED		PRIORITISATION		MANAGEMENT		RELEVANT		SCIENTIFIC TOPICS		PRESENTED		PRIORITISATION
too few, mostly irrelevant	too many	understanding	partial	irrelevant	poor/wrong	poor/wrong	partial	irrelevant	almost no	too few	poor	poor	almost no	too few	poor	partial	irrelevant	poor/wrong	poor/wrong
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Start from 1 and add/subtract
 1 + 2 + 2 + 2 + 2 + 2 = 10

REPORTER										OPPONENT AND REVIEWER'S QUESTIONS									
DISCUSSION WITH OPPONENT					DISCUSSION WITH OPPONENT					RELEVANT					RELEVANT				
PHENOMENON EXPLANATION		THEORY/MODEL		RELIEFMENT	COMPARISON BETWEEN OWN CONTRIBUTION		TASK FULLIMEN		SCIENCE COMMUNICATION		ARGUMENTS/RESPONSES		UNCLEAR, CHAOTIC		REVIEWS		CONDUCT AT THE		RELEVANT
almost no	almost no	almost no	almost no	too few	too few	no/almost no	others, data, incorrectly cited	misunderstood	unclear, chaotic	disussion	argumets/responses	reviws	partly clear	too few	poor	average	some	some	fair
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Start from 1 and add/subtract
 1 + 5 + 3 - 3 = 8

Re: China Opp: Singapore Fig: 6 L, Stage: 3, Problem No. A Sign SCORSEHET
 Reporter: Martchenko, Ilya



QUESTIONS ASKED									
REVIEW OF REPORT									
ANSWERS TO JURY		MISSING POINTS		DISCUSSION ANALYSIS		REVIEW OF OPPOSITION		QUESTIONS	
0	too few, mostly irrelevant	relevance	pros & cons	prioritisation	speECH	discussiON	evaluatiON	pros & cons	prioritisation
1	+ ✓ +	-	✓	✓	✓	✓	✓	✓	✓

Start from 1 and add/subtract

$$\boxed{7} = \boxed{0} - \boxed{0} + \boxed{2} + \boxed{1} + \boxed{1}$$

OPPOSITION ASKED									
DISCUSSION WITH REPORTER									
ANSWERS TO JURY and REVIEWERS' QUESTIONS									
0	too few, mostly irrelevant	understanding of relevant topics	addressed	presented	own opinions	time management	relevant topics	presented	opponents conduct of prioritisation
1	+ ✓ +	-	✓	✓	✓	✓	✓	✓	✓

Start from 1 and add/subtract

$$\boxed{5} = \boxed{0} - \boxed{0} + \boxed{2} + \boxed{1} + \boxed{1}$$

REPORT									
DISCUSSION WITH OPPONENT									
ANSWERS TO JURY, REVIEWERS' QUESTIONS									
0	phenomenon explanation	theory/model	relevant experiments	comparisons between own contribution	task fulfilment	science communication	relevant	arguments/responses	conduct at the discussion
1	+ ✓ +	-	✓	✓	✓	✓	✓	✓	✓

Start from 1 and add/subtract

$$\boxed{7} = \boxed{2} - \boxed{2} + \boxed{5} + \boxed{1}$$

REPORTER SCORESHEET
 Flight 6 L, Stage: 3, Problem No. _____
 Rep: Singapore
 Rev: China
 Peter, Peter



NOTES:

REVIEWER		OPPONENT		QUESTIONS ASKED		ANSWERS TO JURY	
		REVIEW OF REPORT		DISCUSSION ANALYSIS		MISSING POINTS	
0	too few, mostly irrelevant	0	relevant evaluation & underestimating	0	pros & cons prioritisation	0	POINTED OUT QUESTIONS
1	+ 2 + 2 + 2 + 2 + 2 = 9	1	partial	1	partially relevant	1	irrelevant
2	-	2	poor/wrong	0	poor/wrong	0	no questions asked
3	-	3	good	3	concluded as fully reasonable	3	deeply incorrect or show
4	-	4	adequate	4	adequate	4	deep misconceptions
5	-	5	good	5	good	5	short, apt and clear, well prioritized
6	-	6	deeply managed efficiently	6	deeply incorrect or show	6	most time used
7	-	7	deeply incorrect or show	7	deeply incorrect or show	7	most time allotted to Rep & Qpp,

OPPONENT		DISCUSSION WITH REPORTER		DISCUSSION WITH SPEECH		QUESTIONS TO JURY AND REVIEWERS' QUESTIONS	
		RELEVANT TOPICS		TIME		RELEVANT	
0	too few, mostly irrelevant	0	understanding of presentation	0	own opinions	0	concrete and correct
1	+ 2 + 2 + 2 + 2 + 2 = 9	1	almost nothing	0	addressed	0	no questions asked
2	-	2	some main points	0	presented	0	concrete and correct
3	-	3	all relevant points	1	some correct	1	some incorrect, some incomplete
4	-	4	practically all points	2	many correct	2	deeply incorrect or show
5	-	5	practically all points	3	many correct	3	short, apt and clear, well prioritized
6	-	6	practically all points	4	many correct	4	most time used
7	-	7	practically all points	5	many correct	5	deeply incorrect or show

REPORTER		DISCUSSION WITH OPPONENT		DISCUSSION WITH OPPOSITION		ANSWERS TO JURY	
		RELEVANT		SCIENTIFIC TOPICS		RELEVANT	
0	almost no	0	almost no	0	argued, chaotic	0	no questions asked
1	-	1	some	1	some aspects fine	1	concrete and correct
2	-	2	some	2	some aspects fine	2	no questions asked
3	-	3	far	3	above average	3	some incomplete
4	-	4	not well fitting	4	some aspects	4	incomplete or too long
5	-	5	detailed	5	some irreducible results	5	some aspects
6	-	6	detailed, quite detailed	6	considerable experimental	6	deeply incorrect or show
7	-	7	deep and comprehensive	7	greater extent	7	deep misconceptions

REPORTER		SCORING SHEET		SCORING SHEET		REPORTER	
		FIGURE 6 L, Stage: 3, Problem No. 04		FIGURE 6 L, Stage: 3, Problem No. 04		REP: Singapore	
1	+ 3.5 + 3.5 - 0.5 = 6	1	-	1	-	1	-
2	-	2	-	2	-	2	-
3	-	3	-	3	-	3	-
4	-	4	-	4	-	4	-
5	-	5	-	5	-	5	-
6	-	6	-	6	-	6	-
7	-	7	-	7	-	7	-



QUESTIONS ASKED		REVIEW OF REPORT		REVIEW OF OPPONENT		DISCUSSION ANALYSIS		MISSING POINTS		ANSWERS TO JURY	
0	too few, mostly irrelevant	0	report evaluation & understanding	pros & cons	prioritization	speECH evaluation	evaluation	correct own	opinions	POINTED OUT	QUESTIONS
1	+ suitably allotted to Rep & Opp.	0	poor/wrong	irrelevant	no	almost no	too few	no	irrelevant	0	concrete and correct or no questions asked
2	most time used	1	partial	partially relevant	some	too short/long	partially relevant	some	relevant	1	some incorrect, too long
3	+ short, apt and clear, well prioritized, time managed efficiently	2	good	mostly adequate	some	too short/long	mostly adequate	some	adequate	2	inconclusive or too short
4	+ short, apt and clear, well prioritized, time managed efficiently	3	bad	mostly inadequate	none	too short/long	mostly inadequate	none	adequate	3	deeply incorrect or show
5	+ short, apt and clear, well prioritized, time managed efficiently	4	deliberate, detailed	fully	good	too short/long	fully	good	adequate	4	deeply incorrect or show
6	+ short, apt and clear, well prioritized, time managed efficiently	5	deliberate, detailed	fully	good	too short/long	fully	good	adequate	5	deeply incorrect or show

REVIEWER Start from 1 and add/subtract
8 = 0 + 0.5 + 1 + 0.5 + 1 + 0.5 + 2.5 + 1

$$L = O - B + C + I + 1$$

Start from 1 and add/subtract

REPORT	DISCUSSION WITH OPPONENT	REVIEWER'S QUESTIONS								
0	phenomenon explanation	theory/model	relevant experiments	comparisons between	task fulfillment	science communication	argumets/responses	conduct at the	discussions	OPPOONENT, and
1	some	some	some	review of sources, cited	not well fitting	partly	poor	too few	poor	concise and correct or
0	fair	fair	fair	review of sources, cited	not well fitting	partly	poor	some aspects fine	some aspects fine	no questions asked
1	good	good	well performed,	sufficient number	some own input	average	average	some parts	+ some interesting results	concrete and correct,
2	detailed	detailed	quite detailed,	qualitatively analysed	some aspects	above average	good	many	+ data/theory	inconclusive or too long
3	detailed	detailed	quite detailed,	+ results explained	some aspects	above average	good	some aspects	+ theoretical limits	deeply incorrect or show
4	democratic	democratic	detailed, complex	errors analysed	some parts	above average	good	some aspects	demands, critique	deeply misconceptions
5	-1	-1	-1	+ research supported	some parts	above average	good	many	+ data/theory	deep and incomprehensible, detailed, complex
6	-2	-2	-2	+ convincing support	some parts	above average	good	some aspects	some aspects	shows physical insight
7	-3	-3	-3	demands, critique	some parts	above average	good	many	+ theoretical limits	completely testable
8	-4	-4	-4	demands, critique	some parts	above average	good	many	+ theoretical limits	completely falsifiable
9	-5	-5	-5	demands, critique	some parts	above average	good	many	+ theoretical limits	completely falsifiable
10	-6	-6	-6	demands, critique	some parts	above average	good	many	+ theoretical limits	completely falsifiable
11	-7	-7	-7	demands, critique	some parts	above average	good	many	+ theoretical limits	completely falsifiable

REPORTER Start from 1 and add/subtract
1 + 56 + 25 - 0 = 85 

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{6} + \boxed{25} - \boxed{0} = \boxed{9}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4
Tore
sign

Poier, Peter

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/ almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient number	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensive, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

Rep: Singapore

Opp: China

Rev: Switzerland

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient
4	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 ✕ concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{25} - \boxed{0} = \boxed{7}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 ✕ concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{25} + \boxed{2} + \boxed{2} \pm \boxed{0} - \boxed{0} = \boxed{9}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	good, detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

- 1 irrelevant
- 0 ✕ none
- 1 relevant, constructive

ANSWERS TO JURY QUESTIONS

- 0 ✕ concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

IYPT – March 2019

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{5.5} + \boxed{15} - \boxed{7} = \boxed{8}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4

sign

Shchetnikov, Andrey

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication
0	almost no	almost no	too few	no/almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	some	some	some	some	review of sources, cited	partly	partly clear
2	fair	fair	fair	not well fitting	some own input	average	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done
4	detailed	quite detailed, correct	+ results explained	+ theory limits	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	demonstrative	correct	errors analysed	explained, conclusive			
6	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient
4	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{15} + \boxed{2} - \boxed{7} = \boxed{6}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{15} + \boxed{2} + \boxed{2} + \boxed{15} \pm \boxed{7} - \boxed{7} = \boxed{8}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSING POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2 -

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{5.5} + \boxed{2} - \boxed{0} = \boxed{9}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4sign JR

Balcombe, John

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/ almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient <input checked="" type="checkbox"/>	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

Rep: Singapore

Opp: China

Rev: Switzerland

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient
4	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1.4} + \boxed{3} + \boxed{3} - \boxed{0} = \boxed{8}$$

QUESTIONS ASKED

- 0 — too few, mostly irrelevant
- 1 — relevant, aimed at resolving unclear points in the report
- 2 — + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1.5} + \boxed{2.5} + \boxed{2.5} + \boxed{1.3} \pm \boxed{+0.2} - \boxed{0} = \boxed{9}$$

QUESTIONS ASKED

- 0 — too few, mostly irrelevant
- relevant, meant to clarify unclear points
- 1 — + suitably allotted to Rep & Opp, most time used
- 2 — + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

- 1 — irrelevant
- 0 — none
- 1 — relevant, constructive

ANSWERS TO JURY QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{5} + \boxed{2} - \boxed{0} = \boxed{8}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4

Hogan, Kent

REPORT

phenomenon explanation		theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OPPONENT	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	relevant arguments/responses	reporter's conduct at the discussion
1	some	some	some	some	review of sources, cited	partly	partly clear	0 too few	poor
2	fair	fair	fair	not well fitting	some own input	average	average	1 some	some aspects fine
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	2 many	good
4	detailed demonstrative	quite detailed, correct	results explained, errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative	2 + data/theory convincingly supported	some aspects efficient
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	3 proved deep understanding	overall efficient

NOTES: "Pick up" the ball only partly addressed.

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1\frac{1}{2}} + \boxed{3\frac{1}{4}} + \boxed{2} - \boxed{\frac{1}{4}} = \boxed{7}$$

(7½ rounded down)

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER				ANSWERS TO JURY and REVIEWER'S QUESTIONS	
		understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation	0 X concise and correct or no questions asked	
0	too few, mostly irrelevant	almost nothing	no or irrelevant	too few	no	poor	almost no	too few	poor	no	0 X concise and correct or no questions asked	
1	relevant, aimed at resolving unclear points in the report	some main points	few	some	some	reasonable	few	some	some aspects fine	some reasonable	-1 some incorrect, inconclusive or too long	
2	+ short, apt and clear, well prioritized, all time used	main points	some	some correct	reasonable	fair	some	some correct	good	fair	-2 deeply incorrect or show deep misconceptions	
3	X all relevant points	all relevant points	many	many correct	fair	efficient	good	many correct	some aspects efficient	fair		
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used		new crucial point(s)	+ improvement suggestions	overall efficient	very good		

NOTES: Many discussion points not addressed.

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{2} + \boxed{2} + \boxed{2\frac{1}{4}} + \boxed{\frac{3}{4}} \pm \boxed{0} - \boxed{\frac{1}{4}} = \boxed{8}$$

(7¾ rounded up)

QUESTIONS ASKED		REVIEW OF REPORT			REVIEW OF OPPOSITION			DISCUSSION ANALYSIS		MISSED POINTS	ANSWERS TO JURY QUESTIONS
		report evaluation & understanding	pros & cons	prioritisation	speech evaluation	pros & cons	prioritisation	discussion evaluation	correct own opinions	POINTED OUT	0 X concise and correct or no questions asked
0	too few, mostly irrelevant	poor/wrong	irrelevant	no	poor/wrong	irrelevant	no	almost no	too few	-1 irrelevant	0 X concise and correct or no questions asked
1	relevant, meant to clarify unclear points	partial	partially relevant	some	too short/long	partially relevant	some	too short/long	some	0 none	-1 some incorrect, inconclusive or too long
2	+ suitably allotted to Rep & Opp, most time used	good	mostly adequate	reasonable	informative, apt	mostly adequate	reasonable	relevant parts	some many	1 relevant, constructive	-2 deeply incorrect or show deep misconceptions
3	+ short, apt and clear, well prioritized, time managed efficiently	detailed, complex	fully adequate	good	condensed & accurate	fully adequate	good	accurate, conclusive	fully adequate		

NOTES:

Please, suitably adjust your grades taking into regard the [1,10] range.

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{4} + \boxed{3} - \boxed{0} = \boxed{8}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4sign Ilya

Martchenko, Ilya

Rep: Singapore

Opp: China

Rev: Switzerland

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/ almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient number	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

	own contribution	task fulfilment	science communication
0	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	review of sources, cited	partly	partly clear
2	some own input	average	average
3	+ some interesting results	some aspects above average	some parts well done
4	considerable experimental or theoretical	interesting solution	overall clear, demonstrative

	DISCUSSION WITH OPPONENT	
	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient
4	proved deep understanding	overall efficient

	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS	
0	X concise and correct or no questions asked	
-1	some incorrect, inconclusive or too long	
-2	deeply incorrect or show deep misconceptions	

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{3} + \boxed{2} - \boxed{0} = \boxed{7}$$

QUESTIONS ASKED

- 0 — too few, mostly irrelevant
- 1 — relevant, aimed at resolving unclear points in the report
- 2 — + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 X concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{2} + \boxed{2} + \boxed{2} + \boxed{1} \pm \boxed{0} - \boxed{0} = \boxed{8}$$

QUESTIONS ASKED

- 0 — too few, mostly irrelevant
- 1 — relevant, meant to clarify unclear points
- 2 — + suitably allotted to Rep & Opp, most time used
- 3 — + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSSED POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2 deep misconceptions

ANSWERS TO JURY QUESTIONS

- 0 X concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{6} + \boxed{2} - \boxed{1} = \boxed{8}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. _____

sign *Maciej Lew*

Kolwas, Maciej

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	some	some	some	some	review of sources, cited	partly	partly clear
2	fair	fair	fair	not well fitting	some own input	average	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

Best presentation today

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{2} + \boxed{3} - \boxed{1} = \boxed{7}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{1} + \boxed{2} + \boxed{2} \pm \boxed{1} - \boxed{1} = \boxed{7}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSED POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2 fully adequate

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

Stress our result ?!

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{5} + \boxed{1.25} - \boxed{0.5} = \boxed{7}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. _____ sign _____

Plesch, Martin

Rep: Singapore

Opp: China

Rev: Switzerland

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic
1	some	some	some	some	review of sources, cited	partly	partly clear
2	fair	fair	fair	not well fitting	some own input	average	average
3	good	good	well performed, sufficient number	deviations	+ some interesting results	some aspects above average	some parts well done
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	qualitatively analysed	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	deep and comprehensive, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient
4	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
 1 some incorrect, inconclusive or too long
 -1 deeply incorrect or show deep misconceptions

TABLE TOP

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{2} + \boxed{2.5} - \boxed{ } = \boxed{7}$$

	QUESTIONS ASKED
0	too few, mostly irrelevant
1	relevant, aimed at resolving unclear points in the report
2	+ short, apt and clear, well prioritized, all time used
3	
4	

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
 1 some incorrect, inconclusive or too long
 -1 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{2.5} + \boxed{2.5} + \boxed{2} + \boxed{1.5} \pm \boxed{0.5} - \boxed{ } = \boxed{9}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
 1 relevant, meant to clarify unclear points
 2 + suitably allotted to Rep & Opp, most time used
 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSSED POINTS POINTED OUT

- 1 irrelevant
 0 none
 1 relevant, constructive
 -2

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
 1 some incorrect, inconclusive or too long
 -1 deeply incorrect or show deep misconceptions

NOTES:

TIRE

Vortices

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{5.5} + \boxed{2.5} - \boxed{0} = \boxed{9}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4sign h5

Wattanakasiwich, Pornrat

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient number	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

Rep: Singapore

Opp: China

Rev: Switzerland

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many	good
3	+ data/theory convincingly supported	some aspects efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

0	X concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1.5} + \boxed{3} + \boxed{2.5} - \boxed{0} = \boxed{8}$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	all time used

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

0	X concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1.5} + \boxed{2.5} + \boxed{2} + \boxed{1} \pm \boxed{0.5} - \boxed{0} = \boxed{8.5} \approx 8$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points
- 2 + suitably allotted to Rep & Opp, most time used
- 3 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSSED POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive

ANSWERS TO JURY QUESTIONS

0	X concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{3} + \boxed{2} - \boxed{0} = \boxed{7}$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4sign Allison

Allison, Alan

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment
0	almost no	almost no	too few	no/almost no
1	some	some	some	some
2	fair	fair	fair	not well fitting
3	good	good	well performed, sufficient number	deviations qualitatively analysed
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive

Rep: Singapore

Opp: China

Rev: Switzerland

DISCUSSION WITH OPPONENT

	relevant arguments/responses	reporter's conduct at the discussion
0	too few	poor
1	some	some aspects fine
2	many + data/theory convincingly supported	good some aspects efficient
3	proved deep understanding	overall efficient

ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{2} + \boxed{2} - \boxed{0} = \boxed{7}$$

Not enough data.

*cited
What is final theoretical model?
No force in x-direction*

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{2} + \boxed{2} + \boxed{1} \pm \boxed{1} - \boxed{0} = \boxed{8}$$

rounded on comparison

QUESTIONS ASKED

0	too few, mostly irrelevant
1	relevant, aimed at resolving unclear points in the report
2	+ short, apt and clear, well prioritized, all time used

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	relevant parts	many
3	accurate, conclusive	fully adequate

MISSING POINTS POINTED OUT

-1	irrelevant
0	none
1	relevant, constructive

ANSWERS TO JURY QUESTIONS

0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

Vortex shedding

REPORTER

Start from 1 and add/subtract

$$1 + 5.25 + 2 - 0.25 = 8$$



SCORESHEET

Fight 6 L, Stage: 4, Problem No. 4

sign *Maria*

Anghel, Maria

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OPPONENT	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
0	almost no	almost no	too few	no/almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	0 too few	concise and correct or no questions asked
1	some	some	some	some	review of sources, cited	partly	partly clear	1 some	some aspects fine
2	fair	fair	fair	not well fitting	some own input	average	average	2 many	good
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	2+ data/theory	some aspects efficient
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative	2 convincingly supported	deeply incorrect or show deep misconceptions
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	3 proved deep understanding	overall efficient

NOTES: Excellent experiments, but very basic qualitative explanation that doesn't adequately explain the phenomenon.
Bad choice of turbulence model.

OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 2 + 1.75 - 0.25 = 5$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, aimed at resolving unclear points in the report
- 2 + short, apt and clear, well prioritized, all time used

OPPOSITION (SPEECH)

	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management
0	almost nothing	no or irrelevant	too few	no	poor
1	some main points	few	some	some	reasonable
2	main points	some	some correct	reasonable	fair
3	all relevant points	many	many correct	fair	efficient
4	practically all points	practically all	+ improvement suggestions	very good	+ all time used

NOTES:

DISCUSSION WITH REPORTER

	relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation
0	almost no	too few	poor	no
1	few	some	some aspects fine	some
2	some	some correct	good	reasonable
3	good	many correct	some aspects efficient	fair
4	new crucial point(s)	+ improvement suggestions	overall efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

REVIEWER

Start from 1 and add/subtract

$$1 + 0.75 + 2 + 1.75 + 1 \pm \square - \square = 6$$

QUESTIONS ASKED

- 0 too few, mostly irrelevant
- 1 relevant, meant to clarify unclear points + suitably allotted to Rep & Opp, most time used
- 2 + short, apt and clear, well prioritized, time managed efficiently

REVIEW OF REPORT

	report evaluation & understanding	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	partial	partially relevant	some
2	good	mostly adequate	reasonable
3	detailed, complex	fully adequate	good

REVIEW OF OPPOSITION

	speech evaluation	pros & cons	prioritisation
0	poor/wrong	irrelevant	no
1	too short/long	partially relevant	some
2	informative, apt	mostly adequate	reasonable
3	condensed & accurate	fully adequate	good

DISCUSSION ANALYSIS

	discussion evaluation	correct own opinions
0	almost no	too few
1	too short/long	some
2	Relevant parts	many
3	accurate, conclusive	fully adequate

MISSING POINTS POINTED OUT

- 1 irrelevant
- 0 none
- 1 relevant, constructive
- 2

ANSWERS TO JURY QUESTIONS

- 0 concise and correct or no questions asked
- 1 some incorrect, inconclusive or too long
- 2 deeply incorrect or show deep misconceptions

NOTES:

Overall good points but too empty
Should have more motivated points more

Okay but too short
Didn't have time to explain