

# REPORTER

Start from 1 and add/subtract

$$1 + 1.5 + 1 - 0.5 = 3$$



# SCORESHEET

Fight 1 A, Stage: 1, Problem No. 1

sign *Shaharun Andey*

Badin, Matej

Rep: Greece *Christos Bovelis*

Opp: Russia

Rev: China *Hanyue Wang*

## 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				deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done
4	good	good	well performed, sufficient number	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative
5	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated
6	deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis				
7							

## 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:

Rejected: 6 Hurricane balls

• Relevant phenomenon speed fixed, input voltage

• Qualitative explanation



• Voltage High/Low

• Hard to follow experiments

fixed input voltage → not satisfied

Optimum: height of sheets

• Tangential placement?

• Unclear presentation not mention

Charges at the air between?

Q: Shape of electrodes - plates why not sharp

Q: Why RPM from sound and not camera?

Q: What is high voltage/low voltage

Q: What is high speed/low speed

Q: Distorted?

## OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 2.5 + 1.0 - 0 = 5.5$$

## 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

## NOTES:

Slides: constant speed

It could not be controlled

Issues: High/Low voltage

Value of voltage

Vacuum

was not mentioned

Superficially

Simple notes

Control of parameters

Missing optimisation

## 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

## REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 2 + 2 + 1 + 0 = 8$$

## QUESTIONS ASKED

- 0 — too few, mostly irrelevant
- 1 — relevant, meant to clarify unclear points
- 1.5 — + 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: • Charges - positive

• Dielectric surface of bottle → Plastic? → On the bottle

• Sparks → boundary condition... sparks

• Critical voltage

• Breakdown voltage

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

Rejected: 6

# REPORTER

Start from 1 and add/subtract

$$1 + 1\frac{1}{2} + 1 - \frac{1}{2} = 3$$



# SCORESHEET

Fight 1 A, Stage: 1, Problem No. 1

sign *[Signature]*

Hogan, Kent

Rep: Greece

Opp: Russia

Rev: China

REPORT							DISCUSSION WITH OPPONENT		ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/responses	reporter's conduct at the discussion	
0 — almost no	almost no	too few	no/almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	0 — too few	poor	0 — concise and correct or no questions asked
1 <del>X</del> — some	some	some	some	review of sources, cited	partly	partly clear	1 <del>X</del> — some	some aspects fine	1 <del>X</del> — some incorrect, inconclusive or too long
2 — fair	fair	fair	not well fitting	some own input	average	average	2 — + data/theory convincingly supported	good	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	overall efficient	
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			

NOTES: Limited experimental work and unclear explanation

# OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 2\frac{1}{4} + 2 - 0 = 6$$

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 — too few, mostly irrelevant		almost nothing	no or irrelevant	too few	no	poor	0 — almost no	too few	poor	no	0 <del>X</del> — concise and correct or no questions asked
1 <del>X</del> — relevant, aimed at resolving unclear points in the report		some main points	few	some	some	reasonable	1 — few	some	some aspects fine	some	1 — some incorrect, inconclusive or too long
2 — + short, apt and clear, well prioritized, all time used		2 <del>X</del> — main points	some	some correct	reasonable	fair	2 <del>X</del> — some	some correct	good	reasonable	2 — deeply incorrect or show deep misconceptions
		3 — all relevant points	many	many correct	fair	efficient	3 — good	many correct	some aspects efficient	fair	
		4 — practically all points	practically all	+ improvement suggestions	very good	+ all time used	4 — new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES: Good points but not clearly stated opinions

# REVIEWER

Start from 1 and add/subtract

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

7 1/2 round down to 7

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		
0 — too few, mostly irrelevant		poor/wrong	irrelevant	no	0 — poor/wrong	irrelevant	no	0 — almost no	too few	-1 — irrelevant	0 <del>X</del> — concise and correct or no questions asked
1 — relevant, meant to clarify unclear points		1 <del>X</del> — partial	partially relevant	some	1 — too short/long	partially relevant	some	1 <del>X</del> — too short/long	some	0 — none	1 — some incorrect, inconclusive or too long
2 — + suitably allotted to Rep & Opp, most time used		2 <del>X</del> — good	mostly adequate	reasonable	2 <del>X</del> — informative, apt	mostly adequate	reasonable	2 <del>X</del> — relevant parts	many	1 <del>X</del> — relevant, constructive	2 — deeply incorrect or show deep misconceptions
3 — + short, apt and clear, well prioritized, time managed efficiently		3 — detailed, complex	fully adequate	good	3 — condensed & accurate	fully adequate	good	3 — accurate, conclusive	fully adequate		

NOTES: Well done in general, could have used question time more efficiently

## REPORTER

Start from 1 and add/subtract

$$1 + 1 + 1 - 0 = 3$$



## SCORESHEET

Fight 1 A, Stage: 1, Problem No. 1

sign

we

Koh, Teck Seng

Rep: Greece

Opp: Russia

Rev: China

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

## NOTES:

No mention of optimization; misunderstood problem statement — input voltage not meant to be parameter. Many parameters not investigated; cf. friction. Table of expt results poorly organized and not quantified. Nice expt method to use pick and paper and microphone to pick up rotation speed. Wronskunst machine definitely more than 10V output!

## OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 3 + 1.2 - 0 = 5$$

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 — too few, mostly irrelevant		almost nothing	no or irrelevant	too few	no	poor	almost no	too few	poor	no	0 — 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	— some incorrect,
2 — + short, apt and clear, well prioritized, all time used		main points	some	some correct	reasonable	fair	some	some correct	good	reasonable	— inconclusive or too long
		all relevant points	many	many correct	fair	efficient	good	many correct	some aspects efficient	fair	— deeply incorrect or show deep misconceptions
		practically all points	practically all	+ improvement suggestions	very good	all time used	new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES: Many flaws in report pointed out.

Opportunities for many points of discussion; opponent able to prioritize those points, but covered details without bigger scientific evaluative points of how the report falls short; missed distinction between ionia wind and electrostatic. Clarified a lot; Did not move discussion to a higher level.

## REVIEWER

Start from 1 and add/subtract

$$1 + 1.2 + 2 + 2 + 0 + 0 - 0 = 6$$

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		
0 — too few, mostly irrelevant		poor/wrong	irrelevant	no	poor/wrong	irrelevant	no	almost no	too few	-1 — irrelevant	0 — 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	— some incorrect,
2 — + suitably allotted to Rep & Opp, most time used		good	mostly adequate	reasonable	informative, apt	mostly adequate	reasonable	relevant parts	many	1 — relevant, constructive	— inconclusive or too long
3 — + short, apt and clear, well prioritized, time managed efficiently		detailed, complex	fully adequate	good	condensed & accurate	fully adequate	good	accurate, conclusive	fully adequate		— deeply incorrect or show deep misconceptions

NOTES: Fundamental physics understanding shown in evaluation; Able to catch nuanced points of discussion, cf. tangential force absent when electrodes perpendicular not being fault of absence of corona discharge.

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



# REPORTER

Start from 1 and add/subtract

$$1 + 1.5 + 1.5 - 0 = 4.5$$



# SCORESHEET

Fight 1 A, Stage: 1, Problem No. 1

sign

Rep: Greece

Opp: Russia

Rev: China

Pandey, Shashikant

REPORT							DISCUSSION WITH OPPONENT		ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/responses	reporter's conduct at the discussion	
0 — almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	0 — too few	poor	0 — concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
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 — + data/theory convincingly supported	good	
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	overall efficient	
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			

NOTES:

# OPPONENT

Start from 1 and add/subtract

$$1 + 1.5 + 1.5 + 2 - 0 = 6.5$$

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 — too few, mostly irrelevant		0 — almost nothing	no or irrelevant	too few	no	poor	0 — almost no	too few	poor	no	0 — concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — relevant, aimed at resolving unclear points in the report		1 — some main points	few	some	some	reasonable	1 — few	some	some aspects fine	some	
2 — + short, apt and clear, well prioritized, all time used		2 — main points	some	some correct	reasonable	fair	2 — some	some correct	good	reasonable	
		3 — all relevant points	many	many correct	fair	efficient	3 — good	many correct	some aspects efficient	fair	
		4 — practically all points	practically all	+ improvement suggestions	very good	+ all time used	4 — new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES:

# REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 2.5 + 2 + 1.5 + 0.5 - 0 = 8$$

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		
0 — too few, mostly irrelevant		0 — poor/wrong	irrelevant	no	0 — poor/wrong	irrelevant	no	0 — almost no	too few	-1 — irrelevant	0 — concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — + suitably allotted to Rep & Opp, most time used		1 — partial	partially relevant	some	1 — too short/long	partially relevant	some	1 — too short/long	some	0 — none	
2 — + short, apt and clear, well prioritized, time managed efficiently		2 — good	mostly adequate	reasonable	2 — informative, apt	mostly adequate	reasonable	2 — relevant parts	many	1 — relevant, constructive	
		3 — detailed, complex	fully adequate	good	3 — condensed & accurate	fully adequate	good	2 — accurate, conclusive	fully adequate		

NOTES:

NYPT – March 2019

# REPORTER

Start from 1 and add/subtract

$$1 + 1.5 + 2 - 1 = 3.5$$



# SCORESHEET

Fight 1 A, Stage: 1, Problem No. 1

Rep: Greece

Opp: Russia

Rev: China

sign *Radost Waszkiewicz*

Waszkiewicz, Radost

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

NOTES: + corona discharge

- other electrostatic effects

+ setup works / verified param

- only qualitative measurements (even qualitative)

- no theory

- optimize → give best values

# OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 2.5 + 1.5 - 0 = 6$$

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 <input type="checkbox"/> too few, mostly irrelevant	0 <input type="checkbox"/>	0 <input type="checkbox"/> almost nothing	0 <input type="checkbox"/> no or irrelevant	0 <input type="checkbox"/> too few	0 <input type="checkbox"/> no	0 <input type="checkbox"/> poor	0 <input type="checkbox"/> almost no	0 <input type="checkbox"/> too few	0 <input type="checkbox"/> poor	0 <input type="checkbox"/> no	0 <input type="checkbox"/> concise and correct or no questions asked
1 <input type="checkbox"/> relevant, aimed at resolving unclear points in the report	1 <input type="checkbox"/>	1 <input type="checkbox"/> some main points	1 <input type="checkbox"/> few	1 <input type="checkbox"/> some	1 <input type="checkbox"/> some	1 <input type="checkbox"/> reasonable	1 <input type="checkbox"/> few	1 <input type="checkbox"/> some	1 <input type="checkbox"/> some aspects fine	1 <input type="checkbox"/> some	1 <input type="checkbox"/> some incorrect, inconclusive or too long
2 <input type="checkbox"/> + short, apt and clear, well prioritized, all time used	2 <input type="checkbox"/>	2 <input type="checkbox"/> main points	2 <input type="checkbox"/> some	2 <input type="checkbox"/> some correct	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> fair	2 <input type="checkbox"/> some	2 <input type="checkbox"/> some correct	2 <input type="checkbox"/> good	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> deeply incorrect or show deep misconceptions
		3 <input type="checkbox"/> all relevant points	3 <input type="checkbox"/> many	3 <input type="checkbox"/> many correct	3 <input type="checkbox"/> fair	3 <input type="checkbox"/> efficient	3 <input type="checkbox"/> good	3 <input type="checkbox"/> many correct	3 <input type="checkbox"/> some aspects efficient	3 <input type="checkbox"/> fair	
		4 <input type="checkbox"/> practically all points	4 <input type="checkbox"/> practically all	4 <input type="checkbox"/> + improvement suggestions	4 <input type="checkbox"/> very good	4 <input type="checkbox"/> all time used	4 <input type="checkbox"/> new crucial point(s)	4 <input type="checkbox"/> + improvement suggestions	4 <input type="checkbox"/> overall efficient	4 <input type="checkbox"/> very good	

NOTES:

+ asked about voltage control

? vacuum case

+ noted lack of optimisation

- discarded geometry as parameter

+ noted lack of model

# REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 3 + 2.5 + 1.5 - 1 - 0 = 10$$

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		
0 <input type="checkbox"/> too few, mostly irrelevant	0 <input type="checkbox"/>	0 <input type="checkbox"/> poor/wrong	0 <input type="checkbox"/> irrelevant	0 <input type="checkbox"/> no	0 <input type="checkbox"/> poor/wrong	0 <input type="checkbox"/> irrelevant	0 <input type="checkbox"/> no	0 <input type="checkbox"/> almost no	0 <input type="checkbox"/> too few	0 <input type="checkbox"/> irrelevant	0 <input type="checkbox"/> concise and correct or no questions asked
1 <input type="checkbox"/> + suitably allotted to Rep & Opp, most time used	1 <input type="checkbox"/>	1 <input type="checkbox"/> partial	1 <input type="checkbox"/> partially relevant	1 <input type="checkbox"/> some	1 <input type="checkbox"/> too short/long	1 <input type="checkbox"/> partially relevant	1 <input type="checkbox"/> some	1 <input type="checkbox"/> too short/long	1 <input type="checkbox"/> some	1 <input type="checkbox"/> none	1 <input type="checkbox"/> some incorrect, inconclusive or too long
2 <input type="checkbox"/> + short, apt and clear, well prioritized, time managed efficiently	2 <input type="checkbox"/>	2 <input type="checkbox"/> good	2 <input type="checkbox"/> mostly adequate	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> informative, apt	2 <input type="checkbox"/> mostly adequate	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> relevant parts	2 <input type="checkbox"/> many	2 <input type="checkbox"/> relevant, constructive	2 <input type="checkbox"/> deeply incorrect or show deep misconceptions
		3 <input type="checkbox"/> detailed, complex	3 <input type="checkbox"/> fully adequate	3 <input type="checkbox"/> good	3 <input type="checkbox"/> condensed & accurate	3 <input type="checkbox"/> fully adequate	3 <input type="checkbox"/> good	3 <input type="checkbox"/> accurate, concise	3 <input type="checkbox"/> fully adequate		

NOTES:

+ corona ≠ sparks ∴ report irrelevant

+ final optimal parameters

+ sparks are key

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

- short questions: quite long

# REPORTER

Start from 1 and add/subtract

$$1 + 4 + 0.5 - \boxed{\phantom{00}} = 5$$



# SCORESHEET

Fight 1 A, Stage: 2, Problem No. 6

sign *Andy*

Badin, Matej

Rep: Russia

*Andrey Shushanin*

Opp: China

*Quanyu Zhu*

Rev: Iran

*Necar Rahimi*

## 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
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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	+ 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

NOTES: Very good explanation. Q: Slide 1, 2, 3, 4? Speed up of...  
 $\cos \theta = \frac{2}{5} - \frac{g}{aR}$   
 Explained rising up of the balls very well and took deeply, explained rising

No explanation of acceleration of process.  
 Slipping  
 How does blowing affect the phenomenon

Q: Error bars Slide 13  
 Q: Slide 14 Free fall? Not g

## OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 1.5 + 1.5 - \boxed{\phantom{00}} = 5$$

## 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

## 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:

No stop contribution  
 Error analysis  
 Not to much details

Prioritisation  
 Asking irrelevant question  
 Included velocity  
 Second angular velocity obtain  
 Opponent do not understand points

Do not pay attention to question to jury

Q: Rep which angle  
 Q: Opp which angle

## REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 1.5 + 1 + 1.5 \pm 0.5 - \boxed{\phantom{00}} = 7$$

## QUESTIONS ASKED

0	too few, mostly irrelevant
1	+ relevant, meant to clarify unclear points
1.5	+ 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
1.5	relevant parts	many
2	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: 3 coordinates ready slide  
 Opp: 5 + 1.5 + 1.5 + 1 + 1.5 = 7  
 Do not pay attention to jury question

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

# REPORTER

Start from 1 and add/subtract

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



# SCORESHEET

Fight 1 A, Stage: 2, Problem No.

6

sign *Kent*

Hogan, Kent

Rep: Russia

Opp: China

Rev: Iran

REPORT							DISCUSSION WITH OPPONENT		ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/responses	reporter's conduct at the discussion	
0 — almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	too few	poor	0 <input checked="" type="checkbox"/> concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — deeply incorrect or show deep misconceptions -2 —
1 — some	some	some	some	review of sources, cited	partly	partly clear	some	some aspects fine	
2 <input checked="" type="checkbox"/> — fair	<u>fair</u>	<u>fair</u>	<u>not well fitting</u>	some own input	<u>average</u>	average	many	<u>good</u>	
3 — good	<u>good</u>	well performed, sufficient number	qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	+ data/theory convincingly supported	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	proved deep understanding	overall 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			

NOTES: Unclear acknowledgement of reference (what was from paper and what was original?)  
Limited investigation of relevant parameters

# OPPONENT

Start from 1 and add/subtract

$$1 + 1\frac{1}{4} + 2\frac{1}{4} + 2 - 0 = 6\frac{1}{4} \text{ (round down to 6)}$$

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 — too few, mostly irrelevant		almost nothing	no or irrelevant	too few	no	poor	almost no	too few	poor	no	0 <input checked="" type="checkbox"/> concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — deeply incorrect or show deep misconceptions -2 —
1 <input checked="" type="checkbox"/> — relevant, aimed at resolving unclear points in the report		some main points	few	some	some	reasonable	few	some	some aspects fine	some	
2 — + short, apt and clear, well prioritized, all time used		<u>main points</u>	<u>some</u>	some correct	reasonable	<u>fair</u>	some	some correct	good	reasonable	
		all relevant points	many	many correct	fair	efficient	good	many correct	some aspects efficient	fair	
		practically all points	practically all	+ improvement suggestions	very good	+ all time used	new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES: No mention of math. model as either pro or con

Cutting reporter off a lot

# REVIEWER

Start from 1 and add/subtract

$$1 + 1\frac{1}{4} + 1\frac{1}{2} + 1\frac{1}{4} + \frac{1}{2} - 0 - 0 = 5\frac{1}{2} \text{ (5\frac{1}{2} rounded down to 5)}$$

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		
0 — too few, mostly irrelevant		poor/wrong	irrelevant	no	poor/wrong	irrelevant	no	almost no	too few	-1 — irrelevant	0 <input checked="" type="checkbox"/> concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — deeply incorrect or show deep misconceptions -2 —
1 <input checked="" type="checkbox"/> — + suitably allotted to Rep & Opp, most time used		partial	partially relevant	some	too short/long	partially relevant	some	too short/long	some	0 <input checked="" type="checkbox"/> none	
2 — + short, apt and clear, well prioritized, time managed efficiently		<u>good</u>	mostly adequate	reasonable	informative, apt	mostly adequate	reasonable	relevant parts	many	1 — relevant, constructive	
		detailed, complex	fully adequate	good	condensed & accurate	fully adequate	good	accurate, conclusive	fully adequate		

NOTES: Not stating own opinion. A lot of time spent summarising responses to questions not actual discussion. Time management a bit off.



# REPORTER

Start from 1 and add/subtract

$$1 + 2.5 + 1.5 - \square = 5$$



# SCORESHEET

Fight 1 A, Stage: 2, Problem No. 6

sign vs

Koh, Teck Seng

Rep: Russia

Opp: China

Rev: Iran

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

NOTES:

Derivation of formula not given nor explained well. Some expt data, but lacking in a complete analysis of parameters & theoretical understanding.

# OPPONENT

Start from 1 and add/subtract

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

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 — too few, mostly irrelevant		0 — almost nothing	0 — no or irrelevant	0 — too few	0 — no	0 — poor	0 — almost no	0 — too few	0 — poor	0 — no	0 — concise and correct or no questions asked
1 — relevant, aimed at resolving unclear points in the report	1 —	1 — some main points	1 — few	1 — some	1 — some	1 — reasonable	1 — few	1 — some	1 — some aspects fine	1 — some	1 — some incorrect, inconclusive or too long
2 — + short, apt and clear, well prioritized, all time used	2 —	2 — main points	2 — some	2 — some correct	2 — reasonable	2 — fair	2 — some	2 — some correct	2 — good	2 — reasonable	2 — deeply incorrect or show deep misconceptions
		3 — all relevant points	3 — many	3 — many correct	3 — fair	3 — efficient	3 — good	3 — many correct	3 — some aspects efficient	3 — fair	
		4 — practically all points	4 — practically all	4 — + improvement suggestions	4 — very good	4 — + all time used	4 — new crucial point(s)	4 — + improvement suggestions	4 — overall efficient	4 — very good	

NOTES:

He understands the physics but communication is slightly lacking. Should allow reporter to complete his sentences, emphasis on "hard" seems trivial.

# REVIEWER

Start from 1 and add/subtract

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

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		
0 — too few, mostly irrelevant		0 — poor/wrong	0 — irrelevant	0 — no	0 — poor/wrong	0 — irrelevant	0 — no	0 — almost no	0 — too few	0 — irrelevant	0 — concise and correct or no questions asked
1 — relevant, meant to clarify unclear points	1 —	1 — partial	1 — partially relevant	1 — some	1 — too short/long	1 — partially relevant	1 — some	1 — too short/long	1 — some	1 — none	1 — some incorrect, inconclusive or too long
2 — + suitably allotted to Rep & Opp, most time used	2 —	2 — good	2 — mostly adequate	2 — reasonable	2 — informative, apt	2 — mostly adequate	2 — reasonable	2 — relevant parts	2 — many	2 — relevant, constructive	2 — deeply incorrect or show deep misconceptions
3 — + short, apt and clear, well prioritized, time managed efficiently	3 —	3 — detailed, complex	3 — fully adequate	3 — good	3 — condensed & accurate	3 — fully adequate	3 — good	3 — accurate, conclusive	3 — fully adequate		

NOTES:

Some own opinions contributed but appears minor. Understands problem ~~but~~ and asked some good questions



# REPORTER

Start from 1 and add/subtract

$$1 + 2.5 + 1.5 - 0 = 5$$



# SCORESHEET

Fight 1 A, Stage: 2, Problem No. 6

Rep: Russia

Opp: China

Rev: Iran

Pandey, Shashikant

sign

*Shandey*

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

NOTES:

# OPPONENT

Start from 1 and add/subtract

$$1 + 1.0 + 2 + 1 - 0 = 5$$

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 — too few, mostly irrelevant	0 — relevant, aimed at resolving unclear points in the report	0 — almost nothing	0 — no or irrelevant	0 — too few	0 — no	0 — poor	0 — almost no	0 — too few	0 — poor	0 — no	0 — concise and correct or no questions asked
1 —	1 — + short, apt and clear, well prioritized, all time used	1 — some main points	1 — few	1 — some	1 — some	1 — reasonable	1 — few	1 — some	1 — some aspects fine	1 — some	1 — some incorrect, inconclusive or too long
2 —		2 — main points	2 — some	2 — some correct	2 — reasonable	2 — fair	2 — some	2 — some correct	2 — good	2 — reasonable	2 — deeply incorrect or show deep misconceptions
3 —		3 — all relevant points	3 — many	3 — many correct	3 — fair	3 — efficient	3 — good	3 — many correct	3 — some aspects efficient	3 — fair	
4 —		4 — practically all points	4 — practically all	4 — + improvement suggestions	4 — very good	4 — + all time used	4 — new crucial point(s)	4 — + improvement suggestions	4 — overall efficient	4 — very good	

NOTES:

# REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 1.5 + 1 + 1 - 0 - 0 = 6$$

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		
0 — too few, mostly irrelevant	0 — relevant, meant to clarify unclear points	0 — poor/wrong	0 — irrelevant	0 — no	0 — poor/wrong	0 — irrelevant	0 — no	0 — almost no	0 — too few	0 — irrelevant	0 — concise and correct or no questions asked
1 — + suitably allotted to Rep & Opp, most time used	1 —	1 — partial	1 — partially relevant	1 — some	1 — too short/long	1 — partially relevant	1 — some	1 — too short/long	1 — some	1 — none	1 — some incorrect, inconclusive or too long
2 — + short, apt and clear, well prioritized, time managed efficiently	2 —	2 — good	2 — mostly adequate	2 — reasonable	2 — informative, apt	2 — mostly adequate	2 — reasonable	2 — relevant parts	2 — many	2 — relevant, constructive	2 — deeply incorrect or show deep misconceptions
		3 — detailed, complex	3 — fully adequate	3 — good	3 — condensed & accurate	3 — fully adequate	3 — good	3 — accurate, conclusive	3 — fully adequate		

NOTES:

## REPORTER

Start from 1 and add/subtract

$$1 + 2 + 1.5 - 0.5 = 4$$



## SCORESHEET

Fight 1 A, Stage: 2, Problem No. 6

Rep: Russia

Opp: China

Rev: Iran

sign

Waszkiewicz, Radost

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	too few	poor
2	fair	fair	fair	not well fitting	some own input	average	average	some aspects fine	some aspects fine
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	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	+ 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	proved deep understanding	overall efficient

NOTES:

+ rolling/sliding friction + convincing handwaves - no deceleration explanation.  
 + moments of forces - no acceleration theory/explanation - error investigation

## OPPONENT

Start from 1 and add/subtract

$$1 + 0.5 + 1 - 1 = 1$$

QUESTIONS ASKED	OPPOSITION (SPEECH)	DISCUSSION WITH REPORTER	ANSWERS TO JURY and REVIEWER'S QUESTIONS
0	understanding of presentation	relevant scientific topics	own opinions presented
1	almost nothing	too few	poor
2	some main points	some	some aspects fine
3	main points	some correct	good
4	all relevant points	many correct	some aspects efficient
5	practically all points	+ improvement suggestions	overall efficient

NOTES:

+ relevant questions on mechanics = felt the need to explain energy minimization.  
 - spent 6 minutes trying for a 'gotcha' - 'what drag on presentation'

## REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 1.5 + 1.5 + 0.25 - 1 = 5$$

QUESTIONS ASKED	REVIEW OF REPORT	REVIEW OF OPPOSITION	DISCUSSION ANALYSIS	MISSED POINTS POINTED OUT	ANSWERS TO JURY QUESTIONS
0	report evaluation & understanding	speech evaluation	discussion evaluation	correct own opinions	concise and correct or no questions asked
1	poor/wrong	poor/wrong	almost no	too few	some incorrect, inconclusive or too long
2	partial	too short/long	too short/long	some	deeply incorrect or show deep misconceptions
3	good	informative, apt	relevant parts	many	
4	detailed, complex	condensed & accurate	accurate, conclusive	fully adequate	

NOTES:

+ friction static → lagrangian ok ? degrees of freedom  
 - fluid mechanics not mentioned!

# REPORTER

Start from 1 and add/subtract

$$1 + 3.5 + 1.5 - 0 = 6$$



# SCORESHEET

Fight 1 A, Stage: 3, Problem No. 4

Fun! and Ball

sign *Philip Helen*

Badin, Matej

Rep: China

WANG HANUE

Opp: Iran

ROJAN

ABDOULAH ZAHERI

Rev: Greece

Philip Helen

## REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfillment	science communication
0	almost no	almost no	too few	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

## NOTES:

Explaining & investigate relevant phenomenon  
Parameters  
Bernoulli equation  
Capillary effect  
Pressure force  
CFD  
Comparison  
Picking up phase? vs stable one  
Theory dots?  
Slide 19/18  
Slide 22  
mass of the ball ~ 0.01g  
negligible

## OPPONENT

Start from 1 and add/subtract

$$1 + 0.5 + 1 + 1 - 0 = 4$$

## 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

## NOTES:

Net force calculation  
Clear Bernoulli is not used  
boundary condition  
Equation  
more relevant & more clear  
the address

## 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

## REVIEWER

Start from 1 and add/subtract

$$1 + 0 + 2.5 + 1 + 0.5 - 0 = 5$$

## 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

## NOTES:

Angle of funnel  
Inherent  
Bernoulli  
Capillary effect  
velocity / height or distance  
Goal  
Mass of the ball

## 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

0	irrelevant
1	none
2	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

## 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

Picking up and releasing  
Problem when pushing  
Holding force vs picking up force  
Slide 22 # numbers in the line  
Theory  
Theory Slide 27  
What does it mean

## 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

Do not aim into unclear point in presentation  
Unclear answer by reporter  
Trivial cases discussed  
Wrong opinion by opponent  
Net force  
Good question minimum height  
Stable position was...  
Uneffective  
Force vs position

## REPORTER

Start from 1 and add/subtract

$$1 + 4\frac{1}{2} + 1\frac{1}{2} - 1 = 6$$



## SCORESHEET

Fight 1 A, Stage: 3, Problem No.

4

sign

Hogan, Kent

Rep: China

Opp: Iran

Rev: Greece

REPORT								DISCUSSION WITH OPPONENT		ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/responses	reporter's conduct at the discussion	
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	too few	poor	0 — concise and correct or no questions asked
1	some	some	some	some	review of sources, cited	partly	partly clear	some	some aspects fine	1 — some incorrect, inconclusive or too long
2	fair	fair	fair	not well fitting	some own input	average	average	many	good	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	+ data/theory convincingly supported	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			
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	proved deep understanding	overall efficient	
6										
7										

NOTES:

## OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 2 + 1\frac{1}{4} - 0 = 5 \quad (5\frac{1}{4} \text{ rounded down to } 5)$$

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	too few, mostly irrelevant	almost nothing	no or irrelevant	too few	no	poor	almost no	too few	poor	no	0 <input checked="" type="checkbox"/> 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	1 <input checked="" type="checkbox"/> 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	reasonable	2 <input checked="" type="checkbox"/> deeply incorrect or show deep misconceptions	
		all relevant points	many	many correct	fair	efficient	good	many correct	some aspects efficient	fair		
3		practically all points	practically all	+ improvement suggestions	very good	+ all time used	new crucial point(s)	+ improvement suggestions	overall efficient	very good		

NOTES: Started out like a report (1 1/2 min)

Focused too much on a small # of points.

## REVIEWER

Start from 1 and add/subtract

$$1 + \frac{1}{2} + 2\frac{1}{2} + 2 + \frac{3}{4} + \frac{1}{4} - 0 = 7$$

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				
0	too few, mostly irrelevant	poor/wrong	irrelevant	no	poor/wrong	irrelevant	no	almost no	too few	-1	irrelevant	0 <input checked="" type="checkbox"/> concise and correct or no questions asked	
1	+ suitably allotted to Rep & Opp, most time used	partial	partially relevant	some	too short/long	partially relevant	some	too short/long	some	0	none	1 <input checked="" type="checkbox"/> some incorrect, inconclusive or too long	
2	+ short, apt and clear, well prioritized, time managed efficiently	good	mostly adequate	reasonable	informative, apt	mostly adequate	reasonable	relevant parts	many	1	relevant, constructive	2 <input checked="" type="checkbox"/> deeply incorrect or show deep misconceptions	
		detailed, complex	fully adequate	good	condensed & accurate	fully adequate	good	accurate, conclusive	fully adequate				

NOTES: Few Qs to opponent. Pointed out some good issues missed



**REPORTER** Start from 1 and add/subtract

1 + 4.5 + 0.5 - 0 = 6



**SCORESHEET**

Fight 1 A, Stage: 3, Problem No. 4

sign *is*

Koh, Teck Seng

Rep: China

Opp: Iran

Rev: Greece

REPORT							DISCUSSION WITH OPPONENT		ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/responses	reporter's conduct at the discussion	
0 — almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	0 — too few	poor	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
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	
4 — good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	3 — + data/theory convincingly supported	some aspects efficient	
5 — detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative			
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			

NOTES: It was hard to understand what was numerical simulation and what was experimental data. I was not convinced about the results, because the calculations and expt conditions were not clearly explained. both expt & simulation

**OPPONENT** Start from 1 and add/subtract

1 + 1 + 1.5 + 0.5 - 0 = 4

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 — too few, mostly irrelevant		0 — almost nothing	no or irrelevant	too few	no	poor	0 — almost no	too few	poor	no	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — relevant, aimed at resolving unclear points in the report		1 — some main points	few	some	some	reasonable	1 — few	some	some aspects fine	some	
2 — + short, apt and clear, well prioritized, all time used		2 — main points	some	some correct	reasonable	fair	2 — some	some correct	good	reasonable	
		3 — all relevant points	many	many correct	fair	efficient	3 — good	many correct	some aspects efficient	fair	
		4 — practically all points	practically all	+ improvement suggestions	very good	+ all time used	4 — new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES: Should allow opponent a chance to answer. reporter

**REVIEWER** Start from 1 and add/subtract

1 + 0 + 1 + 1 + 0 + 0 - 0 = 3

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		
0 — too few, mostly irrelevant		0 — poor/wrong	irrelevant	no	0 — poor/wrong	irrelevant	no	0 — almost no	too few	-1 — irrelevant	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — + suitably allotted to Rep & Opp, most time used		1 — partial	partially relevant	some	1 — too short/long	partially relevant	some	1 — too short/long	some	0 — none	
2 — + short, apt and clear, well prioritized, time managed efficiently		2 — good	mostly adequate	reasonable	2 — informative, apt	mostly adequate	reasonable	2 — relevant parts	many	1 — relevant, constructive	
		3 — detailed, complex	fully adequate	good	3 — condensed & accurate	fully adequate	good	3 — accurate, conclusive	fully adequate		

NOTES: Lacks understanding of problem.

**REPORTER** Start from 1 and add/subtract

$$1 + 4.5 + 1.5 - 0 = 7$$



**SCORESHEET**

Fight 1 A, Stage: 3, Problem No. 4

Rep: China

Opp: Iran

sign *Spandey*

Pandey, Shashikant

Rev: Greece

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

$$1 + 1.5 + 1.5 + 1 - 0 = 5$$

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 — too few, mostly irrelevant		0 — almost nothing	no or irrelevant	too few	no	poor	0 — almost no	too few	poor	no	0 — concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — relevant, aimed at resolving unclear points in the report		1 — some main points	few	some	some	reasonable	1 — few	some	some aspects fine	some	
2 — + short, apt and clear, well prioritized, all time used		2 — main points	some	some correct	reasonable	fair	2 — some	some correct	good	reasonable	
		3 — all relevant points	many	many correct	fair	efficient	3 — good	many correct	some aspects efficient	fair	
		4 — practically all points	practically all	+ improvement suggestions	very good	+ all time used	4 — new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES:

**REVIEWER** Start from 1 and add/subtract

$$1 + 0.5 + 1 + 1 + 0.5 + \square - \square = 4$$

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		
0 — too few, mostly irrelevant		0 — poor/wrong	irrelevant	no	0 — poor/wrong	irrelevant	no	0 — almost no	too few	-1 — irrelevant	0 — concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — + suitably allotted to Rep & Opp, most time used		1 — partial	partially relevant	some	1 — too short/long	partially relevant	some	1 — too short/long	some	0 — none	
2 — + short, apt and clear, well prioritized, time managed efficiently		2 — good	mostly adequate	reasonable	2 — informative, apt	mostly adequate	reasonable	1 — relevant parts	many	1 — relevant, constructive	
		3 — detailed, complex	fully adequate	good	3 — condensed & accurate	fully adequate	good	2 — accurate, conclusive	fully adequate		

NOTES:

## REPORTER

Start from 1 and add/subtract

$$1 + 6 + 1 - 2 = 6 \rightarrow 6$$



## SCORESHEET

Fight 1 A, Stage: 3, Problem No. 4

Rep: China

Opp: Iran

Rev: Greece

Waszkiewicz, Radost

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

NOTES:

+ good looking simulation ~ too few experiments in comparison to theory - the larger the better  
 - little background in terms of assumptions. - lack of physical conclusions: algebra ≠ conclusions

## OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 2 + 1 - 0 = 5$$

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 <input type="checkbox"/> too few, mostly irrelevant	0 <input type="checkbox"/>	0 <input type="checkbox"/> almost nothing	0 <input type="checkbox"/> no or irrelevant	0 <input type="checkbox"/> too few	0 <input type="checkbox"/> no	0 <input type="checkbox"/> poor	0 <input type="checkbox"/> almost no	0 <input type="checkbox"/> too few	0 <input type="checkbox"/> poor	0 <input type="checkbox"/> no	0 <input type="checkbox"/> concise and correct or no questions asked
1 <input type="checkbox"/> relevant, aimed at resolving unclear points in the report	1 <input type="checkbox"/>	1 <input type="checkbox"/> some main points	1 <input type="checkbox"/> few	1 <input type="checkbox"/> some	1 <input type="checkbox"/> some	1 <input type="checkbox"/> reasonable	1 <input type="checkbox"/> low	1 <input type="checkbox"/> some	1 <input type="checkbox"/> some aspects fine	1 <input type="checkbox"/> some	1 <input type="checkbox"/> some incorrect, inconclusive or too long
2 <input type="checkbox"/> + short, apt and clear, well prioritized, all time used	2 <input type="checkbox"/>	2 <input type="checkbox"/> main points	2 <input type="checkbox"/> some	2 <input type="checkbox"/> some correct	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> fair	2 <input type="checkbox"/> some	2 <input type="checkbox"/> some correct	2 <input type="checkbox"/> good	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> deeply incorrect or show deep misconceptions
		3 <input type="checkbox"/> all relevant points	3 <input type="checkbox"/> many	3 <input type="checkbox"/> many correct	3 <input type="checkbox"/> fair	3 <input type="checkbox"/> efficient	3 <input type="checkbox"/> good	3 <input type="checkbox"/> many correct	3 <input type="checkbox"/> some aspects efficient	3 <input type="checkbox"/> fair	
		4 <input type="checkbox"/> practically all points	4 <input type="checkbox"/> practically all	4 <input type="checkbox"/> + improvement suggestions	4 <input type="checkbox"/> very good	4 <input type="checkbox"/> all time used	4 <input type="checkbox"/> new crucial point(s)	4 <input type="checkbox"/> + improvement suggestions	4 <input type="checkbox"/> overall efficient	4 <input type="checkbox"/> very good	

NOTES:

+ different regime of JL instead of LL  
 + initial ball position. ? be very careful with edge cases: often looks irrel.  
 - very few topics.

## REVIEWER

Start from 1 and add/subtract

$$1 + 0.5 + 1 + 0.5 + 0.25 + 0 - 0 = 3.25 \rightarrow 3$$

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		
0 <input type="checkbox"/> too few, mostly irrelevant	0 <input type="checkbox"/>	0 <input type="checkbox"/> poor/wrong	0 <input type="checkbox"/> irrelevant	0 <input type="checkbox"/> no	0 <input type="checkbox"/> poor/wrong	0 <input type="checkbox"/> irrelevant	0 <input type="checkbox"/> no	0 <input type="checkbox"/> almost no	0 <input type="checkbox"/> too few	0 <input type="checkbox"/> irrelevant	0 <input type="checkbox"/> concise and correct or no questions asked
1 <input type="checkbox"/> + suitably allotted to Rep & Opp, most time used	1 <input type="checkbox"/>	1 <input type="checkbox"/> partial	1 <input type="checkbox"/> partially relevant	1 <input type="checkbox"/> some	1 <input type="checkbox"/> too short/long	1 <input type="checkbox"/> partially relevant	1 <input type="checkbox"/> some	1 <input type="checkbox"/> too short/long	1 <input type="checkbox"/> some	1 <input type="checkbox"/> none	1 <input type="checkbox"/> some incorrect, inconclusive or too long
2 <input type="checkbox"/> + short, apt and clear, well prioritized, time managed efficiently	2 <input type="checkbox"/>	2 <input type="checkbox"/> good	2 <input type="checkbox"/> mostly adequate	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> informative, apt	2 <input type="checkbox"/> mostly adequate	2 <input type="checkbox"/> reasonable	2 <input type="checkbox"/> relevant parts	2 <input type="checkbox"/> many	2 <input type="checkbox"/> relevant, constructive	2 <input type="checkbox"/> deeply incorrect or show deep misconceptions
		3 <input type="checkbox"/> detailed, complex	3 <input type="checkbox"/> fully adequate	3 <input type="checkbox"/> good	3 <input type="checkbox"/> condensed & accurate	3 <input type="checkbox"/> fully adequate	3 <input type="checkbox"/> good	3 <input type="checkbox"/> accurate, conclusive	3 <input type="checkbox"/> fully adequate		

NOTES: - asking the same question as opponent.



## REPORTER

Start from 1 and add/subtract

$$1 + 3.5 + 1.5 - \boxed{\phantom{00}} = \boxed{6}$$



## SCORESHEET

Fight 1 A, Stage: 4, Problem No. 14

Rep: Iran

ROJAN ABDOLLAHAZADE

Opp: Greece

Vassileos Kochis

Rev: Russia

Badin, Matej

## 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
1.5	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
- some incorrect, inconclusive or too long
- 1 — deeply incorrect or show deep misconceptions
- 2 —

## NOTES:

misinterpret the phenomenon. skip the no 2

Sliding → Sliding

Assumptions: Capstone equation

Theory exp while not 0.4

Nice explanation

ME & ME → how it was added nuclear

Comparison of paths

Mass ratios

## OPPONENT

Start from 1 and add/subtract

$$1 + 0 + 1 + 1 - \boxed{\phantom{00}} = \boxed{3}$$

## QUESTIONS ASKED

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

## NOTES:

Discrepancy btw simulation & experiment

How do they calculate? irrelevant question

Track the bob

Best fit line

## 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
- some incorrect, inconclusive or too long
- 1 — deeply incorrect or show deep misconceptions
- 2 —

## REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 1.5 + 1 + 1.5 - \boxed{\phantom{00}} = \boxed{7}$$

## 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
1.5	relevant parts	many
2	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
- some incorrect, inconclusive or too long
- 1 — deeply incorrect or show deep misconceptions
- 2 —

## NOTES:

Slide 7 slightly wrong

Opp: Two dimensional problem?

Irrelevant points for theory and dimensional analysis problem

\* ?! → irrelevant or misunderstood point



Rejected: 12, 2

## REPORTER

Start from 1 and add/subtract

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



## SCORESHEET

Fight 1 A, Stage: 4, Problem No. 14

sign

*[Signature]*

Hogan, Kent

Rep: Iran

Opp: Greece

Rev: Russia

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

NOTES:

## OPPONENT

Start from 1 and add/subtract

$$1 + \frac{1}{2} + \frac{1}{2} - 1 = 4$$

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 <input checked="" type="checkbox"/> — too few, mostly irrelevant		0 — almost nothing	no or irrelevant	too few	no	poor	0 — almost no	too few	poor	no	0 <input checked="" type="checkbox"/> concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — relevant, aimed at resolving unclear points in the report		1 — some main points	few	some	some	reasonable	1 <input checked="" type="checkbox"/> — few	some	some aspects fine	some	
2 — + short, apt and clear, well prioritized, all time used		2 <input checked="" type="checkbox"/> — main points	some	some correct	reasonable	fair	2 — some	some correct	good	reasonable	
		3 — all relevant points	many	many correct	fair	efficient	3 — good	many correct	some aspects efficient	fair	
		4 — practically all points	practically all	+ improvement suggestions	very good	+ all time used	4 — new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES:

## REVIEWER

Start from 1 and add/subtract

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

(8 1/2 rounded down to 8)

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		
0 — too few, mostly irrelevant		0 — poor/wrong	irrelevant	no	0 — poor/wrong	irrelevant	no	0 — almost no	too few	-1 — irrelevant	0 <input checked="" type="checkbox"/> concise and correct or no questions asked — some incorrect, inconclusive or too long -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — + suitably allotted to Rep & Opp, most time used		1 — partial	partially relevant	some	1 — too short/long	partially relevant	some	1 — too short/long	some	0 <input checked="" type="checkbox"/> none	
2 <input checked="" type="checkbox"/> — + short, apt and clear, well prioritized, time managed efficiently		2 — good	mostly adequate	reasonable	2 <input checked="" type="checkbox"/> — informative, apt	mostly adequate	reasonable	2 <input checked="" type="checkbox"/> — relevant parts	many	1 — relevant, constructive	
		3 <input checked="" type="checkbox"/> — detailed, complex	fully adequate	good	3 — condensed & accurate	fully adequate	good	3 — accurate, conclusive	fully adequate		

NOTES:

IYPT - March 2019

# REPORTER

Start from 1 and add/subtract

$$1 + 4 + 1 - \square = 6$$



# SCORESHEET

Fight 1 A, Stage: 4, Problem No. 14

sign

us

Koh, Teck Seng

Rep: Iran

Opp: Greece

Rev: Russia

REPORT								DISCUSSION WITH OPPONENT		ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/responses	reporter's conduct at the discussion	
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	too few	poor	0 concise and correct or no questions asked
1	some	some	some	some	review of sources, cited	partly	partly clear	some	some aspects fine	1 some incorrect, inconclusive or too long
2	fair	fair	fair	not well fitting	some own input	average	average	many	good	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	+ data/theory convincingly supported	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			
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	proved deep understanding	overall efficient	
6										
7										

NOTES:

Mistakes in symbols, unclear theoretical derivation. Otherwise interesting results

# OPPONENT

Start from 1 and add/subtract

$$1 + 0.5 + 2.5 + 0 - \square = 4$$

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	too few, mostly irrelevant	almost nothing	no or irrelevant	too few	no	poor	almost no	too few	poor	no	0 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	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	reasonable	2 deeply incorrect or show deep misconceptions
		all relevant points	many	many correct	fair	efficient	good	many correct	some aspects efficient	fair	
		practically all points	practically all	+ improvement suggestions	very good	+ all time used	new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES:

# REVIEWER

Start from 1 and add/subtract

$$1 + 1.0 + 2 + 2.5 + 1.5 - \square - \square = 8$$

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		
0	too few, mostly irrelevant	poor/wrong	irrelevant	no	poor/wrong	irrelevant	no	almost no	too few	-1 irrelevant	0 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	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:

Clearly understood physics of problem. Able to evaluate both presentation with priority & accuracy

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

**REPORTER** Start from 1 and add/subtract

1 + 3.5 + 1.5 - 0 = 6



**SCORESHEET**

Fight 1 A, Stage: 4, Problem No. 14

sign

*Spandey*

Pandey, Shashikant

Rep: Iran

Opp: Greece

Rev: Russia

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	too few	poor
2	fair	fair	fair	not well fitting	some own input	average	average	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	many	good
4	detailed	quite detailed, correct	+ results explained	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative	+ data/theory convincingly supported	some aspects efficient
5	demonstrative	detailed, complex, completely testable	errors analysed	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	proved deep understanding	overall efficient
6	deep and comprehensive, shows physical insight		+ reproducible, convincing analysis						
7									

NOTES:

**OPPONENT** Start from 1 and add/subtract

1 + 0.5 + 1.0 + 1.5 - 0 = 4

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS	
0	too few, mostly irrelevant	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	
1	relevant, aimed at resolving unclear points in the report	0	almost nothing	no or irrelevant	too few	no	poor	0	almost no	too few	poor	no	some incorrect, inconclusive or too long
2	+ short, apt and clear, well prioritized, all time used	1	some main points	few	some	some	reasonable	1	few	some	some aspects fine	some	deeply incorrect or show deep misconceptions
		2	main points	some	some correct	reasonable	fair	2	some	some correct	good	reasonable	
		3	all relevant points	many	many correct	fair	efficient	3	good	many correct	some aspects efficient	fair	
		4	practically all points	practically all	+ improvement suggestions	very good	+ all time used	4	new crucial point(s)	+ improvement suggestions	overall efficient	very good	

NOTES:

**REVIEWER** Start from 1 and add/subtract

1 + 1.5 + 2 + 2 + 1.5 - 0 = 8

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

NOTES:

$$\boxed{1} + \boxed{5.5} + \boxed{1.5} - \boxed{0} = \boxed{8}$$
[illegible]

NOTES:

## OPPONENT

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER				ANSWERS TO JURY and REVIEWER'S QUESTIONS	
0	<del>too few, mostly irrelevant</del>	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
1	relevant, aimed at resolving unclear points in the report	almost nothing	no or irrelevant	too few	no	poor	<del>almost no</del>	<del>too few</del>	<del>poor</del>	<del>no</del>	1	some incorrect, inconclusive or too long
2	+ short, apt and clear, well prioritized, all time used	some main points	few	some	some	reasonable	<del>new</del>	some	some aspects fine	<del>some</del>	2	deeply incorrect or show deep misconceptions
		main points	some	some correct	reasonable	fair	some	some correct	good	reasonable	3	
		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:

## REVIEWER

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					
0	too few, mostly irrelevant			0	poor/wrong	irrelevant	no	0	poor/wrong	irrelevant	no	0	almost no	too few	-1	irrelevant	0	concise and correct or no questions asked	
	relevant, meant to clarify unclear points			1	partial	partially relevant	some	1	too short/long	partially relevant	some	1	too short/long	some	0	none	-1	some incorrect, inconclusive or too long	
1	+ suitably allotted to Rep & Opp, most time used			2	good	mostly adequate	reasonable	2	too short/long	partially relevant	some	1	relevant parts	many	1	relevant, constructive	2	deeply incorrect or show deep misconceptions	
2	+ short, apt and clear, well prioritized, time managed efficiently			3	detailed, complex	fully adequate	good	3	condensed & accurate	fully adequate	good	2	accurate, conclusive	fully adequate					

NOTES: + relates to slides of reporter  
+ asks both opp and rep

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