

SCORESHEET

REPORTER

1 + 2.5 + 1.5 - 1 = 4

stage: 1

fight (round no.): 1

room: G

problem no.: 8

Juror's name: ALAN ALLINSON

reporter: UKRAINE

opponent: SERIA

reviewer: CHINA

signature: Alan Allinson

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood
1	some	some	some	some	review of sources, cited	partly
2	fair	fair	fair	not well fitting	some own input	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution
4	detailed demonstrative	quite detailed, correct	+ results explained	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
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

NOTES: Nature of inhomogeneity, basic idea good, well performed but too few!

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical points cleared	some	avoided some questions
2	some scientific points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
4	brought in new physics	proved deep understanding	efficient, productive

ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

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

OPPONENT

1 + 0.5 + 1.5 + 1 - 1 = 5 Milena

QUESTIONS ASKED
0 — almost no, irrelevant
1 — some relevant, aimed at resolving some unclear points
2 — short allowing short answers, prioritized, all time used

NOTES:

OPPOSITION (SPEECH)					
	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
0	almost no	almost nothing	no or irrelevant	almost no	no
1	very little	some main points	few	some	almost no
2	not all	main points	some	to important topics	some
3	almost all	all relevant points	many	to most topics	reasonable
4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good

DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very 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

1 + 2 + 2 + 1.5 - 0 = 7

QUESTIONS ASKED
0 — too few, mostly irrelevant
1 — some relevant, sufficient number, could clear things out
2 — most time used, many unclear points resolved, aimed at both rep. and opp.
3 — +short, apt and clear, well prioritized time managed efficiently

NOTES:

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	partial	too short/long	some	partially relevant	almost no
2	good	relevant parts	many	mostly adequate	some
3	detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good

REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	too short/long	too short/long	some	partially relevant	almost no
2	informative, apt	relevant parts	many	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

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

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{3} + \boxed{2} - \boxed{0} = \boxed{6}$$

stage:

fight (round no.):

room:

problem no.:

Juror's name:

reporter: *U. Kovalevko*

opponent: *Milena*

reviewer:

signature:

V. Lobyshev
Blue

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	scientific contribution	relevant arguments/responses	efficiency	
0 — almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	0 — almost no	too few	almost no, chaotic	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	1 — only technical points cleared	some	avoided some questions	
2 — fair	fair	fair	not well fitting	some own input	average	2 — some scientific points cleared	many	cooperated well	
3 — good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution	3 — interesting points discussed	+ data/theory convincingly supported	answered directly to most questions	
4 — detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average	4 — brought in new physics	proved deep understanding	efficient, productive	
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				

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{4} + \boxed{3} + \boxed{2} - \boxed{0} = \boxed{6}$$

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS
		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation	
0 — almost no, irrelevant		0 — almost no	almost nothing	no or irrelevant	almost no	no	0 — almost no	irrelevant	very little	almost no	no	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — some relevant, aimed at resolving some unclear points		1 — very little	some main points	few	some	almost no	1 — little	some	some	to some extent	almost no	
2 — short allowing short answers, prioritized, all time used		2 — not all	main points	some	to important topics	some	2 — partial	average	some correct	leading or cooperative	some	
		3 — almost all	all relevant points	many	to most topics	reasonable	3 — good	many	many correct	quite efficient	reasonable	
		4 — all & efficiently	practically all points	practically all	+ improvement suggestions	very good	4 — new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good	

NOTES:

REVIEWER

Start from 1 and add/subtract

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

QUESTIONS ASKED		REVIEW OF REPORT					REVIEW OF OPPOSITION					ANSWERS TO JURY QUESTIONS
		report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation	speech summary	discussion analysis	own opinions	pros & cons	prioritisation	
0 — too few, mostly irrelevant		0 — poor	almost no	too few	irrelevant	no	0 — poor	almost no	too few	irrelevant	no	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — some relevant, sufficient number, could clear things out		1 — partial	too short/long	some	partially relevant	almost no	1 — too short/long	too short/long	some	partially relevant	almost no	
2 — most time used, many unclear points resolved, aimed at both rep. and opp.		2 — good	relevant parts	many	mostly adequate	some	2 — informative, apt	relevant parts	many	mostly adequate	some	
3 — +short, apt and clear, well prioritized time managed efficiently		3 — detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good	3 — brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good	

NOTES:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + 3.2 + 1.5 - 0.6 = 5.1 \approx 5$$

stage: 1

fight (round no.): 1

room: K

problem no.: 8

Juror's name: Nani

reporter: Ukraine

opponent: Serbia

reviewer: China

signature: [Signature]

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood
1	some	some	some	some	review of sources, cited	partly
2	fair	fair	fair	not well fitting	some own input	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical points cleared	some	avoided some questions
2	some scientific points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
4	brought in new physics	proved deep understanding	efficient, productive

ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

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

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + 1.2 + 2 + 2 - 0.3 = 5.9 \approx 6$$

QUESTIONS ASKED
0 <input type="checkbox"/> almost no, irrelevant
1 <input checked="" type="checkbox"/> some relevant, aimed at resolving some unclear points
2 <input type="checkbox"/> short allowing short answers, prioritized, all time used

OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
0	almost no	almost nothing	no or irrelevant	almost no	no
1	very little	some main points	few	some	almost no
2	not all	main points	some	to important topics	some
3	almost all	all relevant points	many	to most topics	reasonable
4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good

DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very 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:

Milena

REVIEWER

Start from 1 and add/subtract

$$1 + 2.6 + 2.5 + 2.3 - 0.2 = 8.2 \approx 8$$

QUESTIONS ASKED
0 <input type="checkbox"/> too few, mostly irrelevant
1 <input type="checkbox"/> some relevant, sufficient number, could clear things out
2 <input checked="" type="checkbox"/> most time used, many unclear points resolved, aimed at both rep. and opp.
3 <input checked="" type="checkbox"/> +short, apt and clear, well prioritized time managed efficiently

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	partial	too short/long	some	partially relevant	almost no
2	good	relevant parts	many	mostly adequate	some
3	detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good

REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	too short/long	too short/long	some	partially relevant	almost no
2	informative, apt	relevant parts	many	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

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:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{3} + \boxed{1} - \boxed{0} = \boxed{5}$$

stage: 1

fight (round no.): 1

room: G

problem no.: 8

Juror's name: Jasika Jhu

reporter: Ukraine

opponent: serbia

reviewer: china

signature: [Signature]

REPORT

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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical points cleared	some	avoided some questions
2	✓ some scientific points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
4	brought in new physics	proved deep understanding	efficient, productive

ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

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

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{1} + \boxed{2} + \boxed{1.5} - \boxed{0} = \boxed{5.5} = 6$$

QUESTIONS ASKED

- 0 — almost no, irrelevant
- 1 — some relevant, aimed at resolving some unclear points
- 2 — short allowing short answers, prioritized, all time used

OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
0	almost no	almost nothing	no or irrelevant	almost no	no
1	✓ very little	some main points	few	some	almost no
2	✓ not all	main points	some	to important topics	some
3	almost all	all relevant points	many	to most topics	reasonable
4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good

DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

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

NOTES:

REVIEWER

Start from 1 and add/subtract

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

QUESTIONS ASKED

- 0 — too few, mostly irrelevant
- 1 — some relevant, sufficient number, could clear things out
- 2 — most time used, many unclear points resolved, aimed at both rep. and opp.
- 3 — +short, apt and clear, well prioritized time managed efficiently

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	partial	too short/long	some	partially relevant	almost no
2	✓ good	relevant parts	many	mostly adequate	some
3	detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good

REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	too short/long	too short/long	some	partially relevant	almost no
2	informative, apt	relevant parts	many	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

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:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{0.5} + \boxed{1.0} - \boxed{0.5} = \boxed{5}$$

stage: 1
reporter: ukrain

fight (round no.): PF
opponent: Serbia

room: G
reviewer: china

problem no.: 8

Juror's name: Dina Ixadi
signature: Ixadi

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood
1	some	some	some	some	review of sources, cited	partly
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4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical points cleared	some	avoided some questions
2	some scientific points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
4	brought in new physics	proved deep understanding	efficient, productive

ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

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

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{0.75} + \boxed{2} + \boxed{1.75} - \boxed{0.5} = \boxed{5}$$

QUESTIONS ASKED
0 — almost no, irrelevant
1 — some relevant, aimed at resolving some unclear points
2 — short allowing short answers, prioritized, all time used

OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
0	almost no	almost nothing	no or irrelevant	almost no	no
1	very little	some main points	few	some	almost no
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3	almost all	all relevant points	many	to most topics	reasonable
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DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

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

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{2.25} + \boxed{2.25} + \boxed{1} - \boxed{0.5} = \boxed{6}$$

QUESTIONS ASKED
0 — too few, mostly irrelevant
1 — some relevant, sufficient number, could clear things out
2 — most time used, many unclear points resolved, aimed at both rep. and opp.
3 — +short, apt and clear, well prioritized time managed efficiently

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
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REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
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ANSWERS TO JURY QUESTIONS

- 0 — concise and correct or no questions asked
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NOTES:

REPORTER

1 + 1.5 + 1.5 - 0 = 4

SCORESHEET

stage: 2

fight (round no.): 1

room: G

problem no.: 10

Juror's name: A. ALLINSON

reporter: Serbia

opponent: China

reviewer: Ukraine

signature: Al Allin

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment
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DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical	some	avoided some questions
2	points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
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ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

- 0 — concise and correct or no questions asked
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NOTES:

OPPONENT

1 + 1.5 + 2.5 + 2.2 - 1 = 6

	QUESTIONS ASKED
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OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
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DISCUSSION WITH REPORTER

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ANSWERS TO JURY and REVIEWER'S QUESTIONS

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NOTES:

REVIEWER

1 + 1.5 + 1 + 1.5 - 1 = 5

	QUESTIONS ASKED
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ANSWERS TO JURY QUESTIONS

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NOTES:

SCORESHEET

REPORTER

Start from 1 and add/subtract
1 + 2 + 3 - 0 = 6

stage: 2

fight (round no.): 1

room: G

problem no.: 10

Juror's name: V. Lobyshev

reporter: Hileng

opponent: Lyu Hanbai

reviewer: Dima

signature: Blah

REPORT

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ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

- 0 — concise and correct or no questions asked
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NOTES:

OPPONENT

Start from 1 and add/subtract
1 + 1 + 3 + 2 - 0 = 7

QUESTIONS ASKED
0 — almost no, irrelevant
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OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
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2	not all	main points	some	to important topics	some
3	almost all	all relevant points	many	to most topics	reasonable
4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good

DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

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

NOTES:

REVIEWER

Start from 1 and add/subtract
1 + 1 + 3 + 3 - 0 = 8

QUESTIONS ASKED
0 — too few, mostly irrelevant
1 — some relevant, sufficient number, could clear things out
2 — most time used, many unclear points resolved, aimed at both rep. and opp.
3 — +short, apt and clear, well prioritized time managed efficiently

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	partial	too short/long	some	partially relevant	almost no
2	good	relevant parts	many	mostly adequate	some
3	detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good

REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	too short/long	too short/long	some	partially relevant	almost no
2	informative, apt	relevant parts	many	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

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:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + \boxed{2} + \boxed{1} - \boxed{0} = \boxed{4}$$

stage: 2

fight (round no.): 1

room: G

problem no.: 10

Juror's name: Tanida Jaki

reporter: Serbia

opponent: China

reviewer: Ukraine

signature: 

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	scientific contribution	relevant arguments/responses	efficiency	
0 — almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	0 — almost no	too few	almost no, chaotic	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	1 — only technical points cleared	some	avoided some questions	
2 — fair	fair	fair	not well fitting	some own input	average	2 — some scientific points cleared	many	cooperated well	
3 — good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution	3 — interesting points discussed	+ data/theory convincingly supported	answered directly to most questions	
4 — detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average	4 — brought in new physics	proved deep understanding	efficient, productive	
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				

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + \boxed{2} + \boxed{2.5} + \boxed{2.5} - \boxed{0} = \boxed{8}$$

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS
		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation	
0 — almost no, irrelevant		0 — almost no	almost nothing	no or irrelevant	almost no	no	0 — almost no	irrelevant	very little	almost no	no	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — some relevant, aimed at resolving some unclear points		1 — very little	some main points	few	some	almost no	1 — little	some	some	to some extent	almost no	
2 — short allowing short answers, prioritized, all time used		2 — not all	main points	some	to important topics	some	2 — partial	average	some correct	leading or cooperative	some	
		3 — almost all	all relevant points	many	to most topics	reasonable	3 — good	many	many correct	quite efficient	reasonable	
		4 — all & efficiently	practically all points	practically all	+ improvement suggestions	very good	4 — new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good	

NOTES:

REVIEWER

Start from 1 and add/subtract

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

QUESTIONS ASKED		REVIEW OF REPORT					REVIEW OF OPPOSITION					ANSWERS TO JURY QUESTIONS
		report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation	speech summary	discussion analysis	own opinions	pros & cons	prioritisation	
0 — too few, mostly irrelevant		0 — poor	almost no	too few	irrelevant	no	0 — poor	almost no	too few	irrelevant	no	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — some relevant, sufficient number, could clear things out		1 — partial	too short/long	some	partially relevant	almost no	1 — too short/long	too short/long	some	partially relevant	almost no	
2 — most time used, many unclear points resolved, aimed at both rep. and opp.		2 — good	relevant parts	many	mostly adequate	some	2 — informative, apt	relevant parts	many	mostly adequate	some	
3 — +short, apt and clear, well prioritized time managed efficiently		3 — detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good	3 — brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good	

NOTES:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + 1.75 + 1.75 - 0.5 = 4$$

stage: 2
reporter: Serbia

fight (round no.): PF,
opponent: China

room: G
reviewer: Ukraine

problem no.: 10

Juror's name: Dina Izadi
signature: *Azadi*

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood
1	some	some	some	some	review of sources, cited	partly
2	fair	fair	fair	not well fitting	some own input	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical points cleared	some	avoided some questions
2	some scientific points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
4	brought in new physics	proved deep understanding	efficient, productive

ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

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

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + 1.5 + 3.5 + 2 = 8$$

QUESTIONS ASKED
0 — almost no, irrelevant
1 — some relevant, aimed at resolving some unclear points
2 — short allowing short answers, prioritized, all time used

OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
0	almost no	almost nothing	no or irrelevant	almost no	no
1	very little	some main points	few	some	almost no
2	not all	main points	some	to important topics	some
3	almost all	all relevant points	many	to most topics	reasonable
4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good

DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

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

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + 1.5 + 1.75 + 0.25 = 5$$

QUESTIONS ASKED
0 — too few, mostly irrelevant
1 — some relevant, sufficient number, could clear things out
2 — most time used, many unclear points resolved, aimed at both rep. and opp.
3 — +short, apt and clear, well prioritized time managed efficiently

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	partial	too short/long	some	partially relevant	almost no
2	good	relevant parts	many	mostly adequate	some
3	detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good

REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	too short/long	too short/long	some	partially relevant	almost no
2	informative, apt	relevant parts	many	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

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:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + 2.9 + 1.2 - 0.3 = 4.8 \approx 5$$

stage: ~~2~~
reporter: Serbia

fight (round no.): 1
opponent: China

room: K
reviewer: Ukraine

problem no.:
Juror's name: Nari
signature: [signature]

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	scientific contribution	relevant arguments/responses	efficiency	
0 — almost no	0 — almost no	0 — too few	0 — no/ almost no	0 — others' data, incorrectly cited	0 — misunderstood	0 — almost no	0 — too few	0 — almost no, chaotic	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — some	1 — some	1 — some	1 — some	1 — review of sources, cited	1 — partly	1 — only technical	1 — some	1 — avoided some questions	
2 — fair	2 — fair	2 — fair	2 — not well fitting	2 — some own input	2 — average	2 — some scientific	2 — many	2 — cooperated well	
3 — good	3 — good	3 — well performed, sufficient number	3 — qualitatively analysed	3 — some interesting results	3 — interesting solution	3 — interesting points	3 — + data/theory	3 — answered directly to most questions	
4 — detailed demonstrative	4 — quite detailed, correct	4 — + results explained errors analysed	4 — + theory limits explained, conclusive	4 — considerable experimental or theoretical	4 — some aspects above average	4 — discussed	4 — convincingly supported	4 — efficient, productive	
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 — brought in new physics	5 — proved deep understanding	5 —	

NOTES: Milena

OPPONENT

Start from 1 and add/subtract

$$1 + 1.6 + 2.5 + 2.4 - 0.3 = 7.2 \approx 7$$

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS
		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation	
0 — almost no, irrelevant	0 —	0 — almost no	0 — almost nothing	0 — no or irrelevant	0 — almost no	0 — no	0 — almost no	0 — irrelevant	0 — very little	0 — almost no	0 — no	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — some relevant, aimed at resolving some unclear points	1 —	1 — very little	1 — some main points	1 — few	1 — some	1 — almost no	1 — little	1 — some	1 — some	1 — to some extent	1 — almost no	
2 — short allowing short answers, prioritized, all time used	2 — X	2 — not all	2 — main points	2 — some	2 — to important topics	2 — some	2 — partial	2 — average	2 — some correct	2 — leading or cooperative	2 — some	
		3 — almost all	3 — all relevant points	3 — many	3 — to most topics	3 — reasonable	3 — good	3 — many	3 — many correct	3 — quite efficient	3 — reasonable	
		4 — all & efficiently	4 — practically all points	4 — practically all	4 — + improvement suggestions	4 — very good	4 — new crucial point(s)	4 — almost all	4 — + improvement suggestions	4 — very efficient	4 — very good	

NOTES: Hanbai

REVIEWER

Start from 1 and add/subtract

$$1 + 1.4 + 1.5 + 1.4 - 0.4 = 4.9 \approx 5$$

QUESTIONS ASKED		REVIEW OF REPORT					REVIEW OF OPPOSITION					ANSWERS TO JURY QUESTIONS
		report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation	speech summary	discussion analysis	own opinions	pros & cons	prioritisation	
0 — too few, mostly irrelevant	0 —	0 — poor	0 — almost no	0 — too few	0 — irrelevant	0 — no	0 — poor	0 — almost no	0 — too few	0 — irrelevant	0 — no	0 — concise and correct or no questions asked -1 — some incorrect, inconclusive or too long -2 — deeply incorrect or show deep misconceptions
1 — clear things out	1 —	1 — partial	1 — too short/long	1 — some	1 — partially relevant	1 — almost no	1 — too short/long	1 — too short/long	1 — some	1 — partially relevant	1 — almost no	
2 — most time used, many unclear points resolved, aimed at both rep. and opp.	2 —	2 — good	2 — relevant parts	2 — many	2 — mostly adequate	2 — some	2 — informative, apt	2 — relevant parts	2 — many	2 — mostly adequate	2 — some	
3 — +short, apt and clear, well prioritized time managed efficiently	3 —	3 — detailed, complex	3 — accurate, conclusive	3 — + improvement suggestions	3 — fully adequate	3 — good	3 — brief but accurate	3 — accurate, conclusive	3 — + improvement suggestions	3 — fully adequate	3 — good	

NOTES: Dima

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + 4 + 3 - 0 = 8$$

stage: 3
reporter: China

fight (round no.): 1
opponent: Ukraine

room: G
reviewer: Serbia

problem no.: 17

Juror's name: V. Lobyshev
signature: Blakuf

REPORT

	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood
1	some	some	some	some	review of sources, cited	partly
2	fair	fair	fair	not well fitting	some own input	average
3	good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution
4	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical points cleared	some	avoided some questions
2	some scientific points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
4	brought in new physics	proved deep understanding	efficient, productive

ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS

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

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + 1 + 8 + 2 - 0 = 12$$

QUESTIONS ASKED
0 — almost no, irrelevant
1 — some relevant, aimed at resolving some unclear points
2 — short allowing short answers, prioritized, all time used

OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
0	almost no	almost nothing	no or irrelevant	almost no	no
1	very little	some main points	few	some	almost no
2	not all	main points	some	to important topics	some
3	almost all	all relevant points	many	to most topics	reasonable
4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good

DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

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

NOTES:

REVIEWER

Start from 1 and add/subtract

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

QUESTIONS ASKED
0 — too few, mostly irrelevant
1 — some relevant, sufficient number, could clear things out
2 — most time used, many unclear points resolved, aimed at both rep. and opp.
3 — +short, apt and clear, well prioritized time managed efficiently

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	partial	too short/long	some	partially relevant	almost no
2	good	relevant parts	many	mostly adequate	some
3	detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good

REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	too short/long	too short/long	some	partially relevant	almost no
2	informative, apt	relevant parts	many	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

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:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + 5.5 + 3 - 0 = 9.5 + 10 =$$

stage: 3

fight (round no.): 1

room: G1

problem no.: 17

Juror's name: Tanida Jela

reporter: China

opponent: Ukraine

reviewer: Serbia

signature: [Signature]

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	scientific contribution	relevant arguments/responses	efficiency	
0 almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	0 almost no	too few	almost no, chaotic	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	1 only technical	some	avoided some questions	
2 fair	fair	fair	not well fitting	some own input	average	2 some scientific	many	cooperated well	
3 good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution	3 points cleared			
4 detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average	4 interesting points discussed	+ data/theory convincingly supported	answered directly to most questions	
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	5 brought in new physics	proved deep understanding	efficient, productive	

NOTES:

OPPONENT

Start from 1 and add/subtract

$$1 + 1.5 + 1.5 + 1.5 - 0 = 5.5 = 6$$

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS
		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation	
0 almost no, irrelevant		0 almost no	almost nothing	no or irrelevant	almost no	no	0 almost no	irrelevant	very little	almost no	no	0 concise and correct or no questions asked -1 some incorrect, inconclusive or too long -2 deeply incorrect or show deep misconceptions
1 some relevant, aimed at resolving some unclear points		1 very little	some main points	few	some	almost no	1 little	some	some	to some extent	almost no	
2 short allowing short answers, prioritized, all time used		2 not all	main points	some	to important topics	some	2 partial	average	some correct	leading or cooperative	some	
		3 almost all	all relevant points	many	to most topics	reasonable	3 good	many	many correct	quite efficient	reasonable	
		4 all & efficiently	practically all points	practically all	+ improvement suggestions	very good	4 new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good	

NOTES:

REVIEWER

Start from 1 and add/subtract

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

QUESTIONS ASKED		REVIEW OF REPORT					REVIEW OF OPPOSITION					ANSWERS TO JURY QUESTIONS
		report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation	speech summary	discussion analysis	own opinions	pros & cons	prioritisation	
0 too few, mostly irrelevant		0 poor	almost no	too few	irrelevant	no	0 poor	almost no	too few	irrelevant	no	0 concise and correct or no questions asked -1 some incorrect, inconclusive or too long -2 deeply incorrect or show deep misconceptions
1 some relevant, sufficient number, could clear things out		1 partial	too short/long	some	partially relevant	almost no	1 too short/long	too short/long	some	partially relevant	almost no	
2 most time used, many unclear points resolved, aimed at both rep. and opp.		2 good	relevant parts	many	mostly adequate	some	2 informative, apt	relevant parts	many	mostly adequate	some	
3 +short, apt and clear, well prioritized time managed efficiently		3 detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good	3 brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good	

NOTES:

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + 4 + 2.5 - 0.5 = 7$$

stage: 3
reporter: China

fight (round no.): PF
opponent: Ukraine

room: G
reviewer: Serbia

problem no.: 17

Juror's name: Dina Izadi
signature: [Signature]

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	scientific contribution	relevant arguments/responses	efficiency	
0 almost no	0 almost no	0 too few	0 no/ almost no	0 others' data, incorrectly cited	0 misunderstood	0 almost no	0 too few	0 almost no, chaotic	0 concise and correct or no questions asked -1 some incorrect, inconclusive or too long -2 deeply incorrect or show deep misconceptions
1 some	1 some	1 some	1 some	1 review of sources, cited	1 partly	1 only technical	1 some	1 avoided some questions	
2 fair	2 fair	2 fair	2 not well fitting	2 some own input	2 average	2 some scientific	2 many	2 cooperated well	
3 good	3 good	3 well performed, sufficient number	3 deviations qualitatively analysed	3 some interesting results	3 interesting solution	3 points cleared	3 + data/theory	3 answered directly to most questions	
4 detailed demonstrative	4 quite detailed, correct	4 + results explained errors analysed	4 + theory limits explained, conclusive	4 considerable experimental or theoretical	4 some aspects above average	4 interesting points discussed	4 convincingly supported	4 efficient, productive	
6 deep and comprehensible, shows physical insight	6 detailed, complex, completely testable	6 + reproducible, convincing analysis	6 well fitting, deviations analysed, conclusive	6 considerable experimental and theoretical	6 greater extent than expected	6 brought in new physics	6 proved deep understanding		

NOTES: it was read from the notes on laptop so he was not ready completely to present his project

OPPONENT

Start from 1 and add/subtract

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

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS
		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation	
0 almost no, irrelevant	0	0 almost no	0 almost nothing	0 no or irrelevant	0 almost no	0 no	0 almost no	0 irrelevant	0 very little	0 almost no	0 no	0 concise and correct or no questions asked -1 some incorrect, inconclusive or too long -2 deeply incorrect or show deep misconceptions
1 some relevant, aimed at resolving some unclear points	1	1 very little	1 some main points	1 few	1 some	1 almost no	1 little	1 some	1 to some extent	1 almost no	1 almost no	
2 short allowing short answers, prioritized, all time used	2	2 not all	2 main points	2 some	2 to important topics	2 some	2 partial	2 average	2 some correct	2 leading or cooperative	2 some	
	3	3 almost all	3 all relevant points	3 many	3 to most topics	3 reasonable	3 good	3 many	3 many correct	3 quite efficient	3 reasonable	
	4	4 all & efficiently	4 practically all points	4 practically all	4 + improvement suggestions	4 very good	4 new crucial point(s)	4 almost all	4 + improvement suggestions	4 very efficient	4 very good	

NOTES:

REVIEWER

Start from 1 and add/subtract

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

QUESTIONS ASKED		REVIEW OF REPORT					REVIEW OF OPPOSITION					ANSWERS TO JURY QUESTIONS
		report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation	speech summary	discussion analysis	own opinions	pros & cons	prioritisation	
0 too few, mostly irrelevant	0	0 poor	0 almost no	0 too few	0 irrelevant	0 no	0 poor	0 almost no	0 too few	0 irrelevant	0 no	0 concise and correct or no questions asked -1 some incorrect, inconclusive or too long -2 deeply incorrect or show deep misconceptions
1 some relevant, sufficient number, could clear things out	1	1 partial	1 too short/long	1 some	1 partially relevant	1 almost no	1 too short/long	1 too short/long	1 some	1 partially relevant	1 almost no	
2 most time used, many unclear points resolved, aimed at both rep. and opp.	2	2 good	2 relevant parts	2 many	2 mostly adequate	2 some	2 informative, apt	2 relevant parts	2 many	2 mostly adequate	2 some	
3 +short, apt and clear, well prioritized time managed efficiently	3	3 detailed, complex	3 accurate, conclusive	3 + improvement suggestions	3 fully adequate	3 good	3 brief but accurate	3 accurate, conclusive	3 + improvement suggestions	3 fully adequate	3 good	

NOTES:

SCORESHEET

REPORTER

Start from 1 and add/subtract

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

stage: 3

fight (round no.): 1

room: G

problem no.: 17

Juror's name: A. ALLINSON

reporter: China

opponent: UKRAINE

reviewer: SERBIA

signature: Al Allinson

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	scientific contribution	relevant arguments/responses	efficiency	
0 almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	0 almost no	too few	almost no, chaotic	0 concise and correct or no questions asked
1 some	some	some	some	review of sources, cited	partly	1 only technical points cleared	some	avoided some questions	
2 fair	fair	fair	not well fitting	some own input	average	2 some scientific points cleared	many	cooperated well	-1 some incorrect, inconclusive or too long
3 good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution	3 interesting points discussed	+ data/theory convincingly supported	answered directly to most questions	
4 detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average	4 brought in new physics	proved deep understanding	efficient, productive	-2 deeply incorrect or show deep misconceptions
5 deep and comprehensible, shows physical insight	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected				

NOTES:

more data

Did they really maximise?
trends for parameters alone but stated not independent

OPPONENT

Start from 1 and add/subtract

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

QUESTIONS ASKED		OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS
		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation	
0 almost no, irrelevant		almost no	almost nothing	no or irrelevant	almost no	no	0 almost no	irrelevant	very little	almost no	no	0 concise and correct or no questions asked
1 some relevant, aimed at resolving some unclear points		1 very little	some main points	few	some	almost no	1 little	some	some	to some extent	almost no	
2 short allowing short answers, prioritized, all time used		2 not all	main points	some	to important topics	some	2 partial	average	some correct	leading or cooperative	some	-1 some incorrect, inconclusive or too long
		3 almost all	all relevant points	many	to most topics	reasonable	3 good	many	many correct	quite efficient	reasonable	
		4 all & efficiently	practically all points	practically all	+ improvement suggestions	very good	4 new crucial point(s)	almost all	+ improvement suggestions	very efficient	very good	-2 deeply incorrect or show deep misconceptions

NOTES:

REVIEWER

Start from 1 and add/subtract

$$1 + \boxed{2} + \boxed{1.5} + \boxed{0.5} - \boxed{0} = \boxed{6}$$

QUESTIONS ASKED		REVIEW OF REPORT					REVIEW OF OPPOSITION					ANSWERS TO JURY QUESTIONS
		report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation	speech summary	discussion analysis	own opinions	pros & cons	prioritisation	
0 too few, mostly irrelevant		0 poor	almost no	too few	irrelevant	no	0 poor	almost no	too few	irrelevant	no	0 concise and correct or no questions asked
1 some relevant, sufficient number, could clear things out		1 partial	too short/long	some	partially relevant	almost no	1 too short/long	too short/long	some	partially relevant	almost no	
2 most time used, many unclear points resolved, aimed at both rep. and opp.		2 good	relevant parts	many	mostly adequate	some	2 informative, apt	relevant parts	many	mostly adequate	some	-1 some incorrect, inconclusive or too long
3 +short, apt and clear, well prioritized time managed efficiently ?		3 detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good	3 brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good	

NOTES:

sliding m. rolling

SCORESHEET

REPORTER

Start from 1 and add/subtract

$$1 + 4.0 + 2.5 - 0.1 = 7.4 \approx 7$$

stage: 3
reporter: China

fight (round no.): 1
opponent: Ukraine

room: K
reviewer: Serbia

problem no.: 17

Juror's name: Marija
signature: mjs

REPORT

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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
1	only technical points cleared	some	avoided some questions
2	some scientific points cleared	many	cooperated well
3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
4	brought in new physics	proved deep understanding	efficient, productive

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: Hambai.

OPPONENT

Start from 1 and add/subtract

$$1 + 0.6 + 1.2 + 1.1 - 0 = 3.9 \approx 4$$

QUESTIONS ASKED
0 <input checked="" type="checkbox"/> almost no, irrelevant
1 <input checked="" type="checkbox"/> some relevant, aimed at resolving some unclear points
2 <input type="checkbox"/> short allowing short answers, prioritized, all time used

OPPOSITION (SPEECH)

	time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation
0	almost no	almost nothing	no or irrelevant	almost no	no
1	very little	some main points	few	some	almost no
2	not all	main points	some	to important topics	some
3	almost all	all relevant points	many	to most topics	reasonable
4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good

DISCUSSION WITH REPORTER

	scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation
0	almost no	irrelevant	very little	almost no	no
1	little	some	some	to some extent	almost no
2	partial	average	some correct	leading or cooperative	some
3	good	many	many correct	quite efficient	reasonable
4	new crucial point(s)	almost all	+ improvement suggestions	very 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: Dima

REVIEWER

Start from 1 and add/subtract

$$1 + 0.7 + 1.1 + 1.1 - 0 = 3.9 \approx 4$$

QUESTIONS ASKED
0 <input checked="" type="checkbox"/> too few, mostly irrelevant
1 <input checked="" type="checkbox"/> some relevant, sufficient number, could clear things out
2 <input type="checkbox"/> most time used, many unclear points resolved, aimed at both rep. and opp.
3 <input type="checkbox"/> +short, apt and clear, well prioritized time managed efficiently

REVIEW OF REPORT

	report summary & understanding	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	partial	too short/long	some	partially relevant	almost no
2	good	relevant parts	many	mostly adequate	some
3	detailed, complex	accurate, conclusive	+ improvement suggestions	fully adequate	good

REVIEW OF OPPOSITION

	speech summary	discussion analysis	own opinions	pros & cons	prioritisation
0	poor	almost no	too few	irrelevant	no
1	too short/long	too short/long	some	partially relevant	almost no
2	informative, apt	relevant parts	many	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

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:

Round: 1 Room: 9 Fight Assistants: Bairi Sahitya, Atker Kwan Fung, Sam Koh



Team	Stage 1			Stage 2			Stage 3			Stage 4		
	Ukraine	Serbia	China	Serbia	China	Ukraine	China	Ukraine	Serbia	Rep	Opp	Rev
Juror	Rep	Opp	Rev	Rep	Opp	Rev	Rep	Opp	Rev	Rep	Opp	Rev
Alan Allinson	5	5	7	4	7	5	8	7	6			
Dina Izadi	5	5	6	4	8	5	7	4	3			
Farida Tahir	5	5	7	4	8	3	10	6	5			
Narit Triannak	5	5	8	5	7	5	7	4	4			
Valentin Lobyshev	6	6	7	6	7	8	8	6	5			
Acting Team Member	25	22	33									
	Maria Kovalenko	Milena Simić	Ruyi Ding	Milena Simić	Hanbai Lyu	Dmytro Tvardovskyi Dmytro Tvardovskyi	Hanbai Lyu	Dmytro Tvardovskyi	Luka Lazarević			
Rejected Problems	1			104								
Accepted Problem	8. Visualising Density			10. Pulling glasses Apart			17. Vacuum Bazaar					

Signature Fight Assistant: *[Signature]* Double-checked with Scoring Guidelines by second Fight Assistant (signature): *[Signature]*