SCORESHEET

stage: **3** fight (round no.): **5** room: **K** problem no.: **13** Juror's name: G. Jennings

reporter: **Iran (Aida)** opponent: **Canada (Patrick)** reviewer: **Georgia (Sergio)** signature: _[signature]_

REPORTER

Start from 1 and add/subtract

1 + [1.5] + [2.5] − [0] = [4]

REPORT

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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared		
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	(circled) 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] + [3.0] + [2.5] − [0] = [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	(circled) 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 + [2.0] + [2.0] + [2.0] − [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

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

NOTES:

SCORESHEET

stage: *3* fight (round no.): *5* room: *K* problem no.: *13* Juror's name: *Zuzana Pacala*

reporter: *Aida Pascale* (*Iran*) opponent: *Patrick Pachard* (*Canada*) reviewer: *Gergyo Poliakov* (*Georgia*) signature: *Pacalin*

REPORTER

Start from 1 and add/subtract

$1 + [2] + [1] - [1] = [3]$

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		only technical	some	avoided some questions	
2	fair	fair	fair	not well fitting	some own input	average	1	points cleared		cooperated well	
3	good	good	well performed, sufficient number	deviations qualitatively analysed	some interesting results	interesting solution	2	some scientific points cleared	many		-1 some incorrect, inconclusive or too long
4	detailed demonstrative	quite detailed, correct	+ results explained, errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average	3	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions	
5											-2 deeply incorrect or show deep misconceptions
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	4	brought in new physics	proved deep understanding	efficient, productive	

NOTES:

OPPONENT

Start from 1 and add/subtract

$1 + [1] + [3] + [3] - [0] = [8]$

QUESTIONS ASKED	OPPOSITION (SPEECH)					DISCUSSION WITH REPORTER					ANSWERS TO JURY and REVIEWER'S QUESTIONS
0 almost no, irrelevant		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation		scientific contribution	relevance of topics	own opinions presented	efficiency	prioritisation	
1 some relevant, aimed at resolving some unclear points	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
2 short allowing short answers, prioritized, all time used	1	very little	some main points	few	some	almost no	1	little	some	some	to some extent	almost no	-1 some incorrect, inconclusive or too long
	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	-2 deeply incorrect or show deep misconceptions
	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

$1 + [1] + [2,5] + [2,5] - [0] = [7]$

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

NOTES:

SCORESHEET

stage: 3   fight (round no.): 5   room: K   problem no.: 13   Juror's name: Chrisy Du

reporter: Iran / Aida Rasouli   opponent: Canada / Patrick Prochazka   reviewer: Georgia / Sergio Polyakov   signature: [signature]

REPORTER
Start from 1 and add/subtract

$1 + \boxed{1.5} + \boxed{1} - \boxed{0.5} = \boxed{3}$

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 errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
5	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

(circled: almost no (theory/model); some (phenomenon explanation); too few→some (relevant experiments); no/almost no (comparison); some own input (own contribution); partly (task fulfilment))

DISCUSSION WITH OPPONENT

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

(circled: only technical points cleared; some; avoided some questions)

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

(circled: some incorrect, inconclusive or too long)

NOTES:

OPPONENT
Start from 1 and add/subtract

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

QUESTIONS ASKED

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

(circled: short allowing short answers)

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

(circled: almost all; practically all points; many; to most topics; reasonable)

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

(circled: good; many; many correct; quite efficient)

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

(circled: concise and correct or no questions asked; some)

NOTES:

REVIEWER
Start from 1 and add/subtract

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

QUESTIONS ASKED

0	too few, mostly irrelevant
	some relevant, sufficient number, could
1	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

(circled: most time used, many unclear points)

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

(circled: almost no; partially relevant; almost no; good; many)

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

(circled: almost no; too short/long; partially relevant; almost no; many)

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

(circled: concise and correct or no questions asked)

NOTES:

SCORESHEET

stage: 3	fight (round no.): 5
reporter: IRAN / Aida Rasoulisani	opponent: CANADA / Patrick Prochazka

room: K   problem no.: 13   Juror's name: CHAN TAW KUEI   signature: (signed)

reviewer: GEORGIA / Sergo Polyakov

REPORTER

Start from 1 and add/subtract

1 + [2.●] + [2] − [0] = [5]

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						
5	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared		
	some scientific ✗	many ✗	cooperated well ✗
2	points cleared ⟍		
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: No theoretical model and comparison to experimental results. Almost all the presentation is on experimental observation. She used only 9 out of the 12 mins allowed for report, could possibly cover a lot more. Cooperated well to opponent.

OPPONENT

Start from 1 and add/subtract

1 + [1.5] + [2.5] + [3] − [0] = [8]

QUESTIONS ASKED

0	almost no, irrelevant
	some relevant, aimed at resolving
1	some unclear points ✗
	short allowing short answers,
2	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: Conducted an orderly and informative discussion. Pointed out relevant issues and controlled the flow of discussion.

REVIEWER

Start from 1 and add/subtract

1 + [2] + [2] + [2] − [0] = [7]

QUESTIONS ASKED

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

SCORESHEET

stage: **3** fight (round no.): **5** room: **K** problem no.: **13**

reporter: **IR** opponent: **CA** reviewer: **GE**

Juror's name: *Andres Krisluln* signature: *(signature)*

REPORTER

Start from 1 and add/subtract

1 + [3] + [1] − [0] = [5]

REPORT

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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical points cleared (circled)	some	avoided some questions (circled)
1	some scientific points cleared (circled)		cooperated well
2		many (circled)	
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 (circled)	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 + [2] + [3] + [3] − [0] = [9]

QUESTIONS ASKED

0	almost no, irrelevant
1	some relevant, aimed at resolving some unclear points
2 (circled)	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 (circled)	to most topics (circled)	reasonable (circled)
4	all & efficiently (circled)	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 (circled)	good (circled)	many (circled)	many correct	quite efficient (circled)	reasonable (circled)
4	new crucial point(s)	almost all	+ improvement suggestions (circled)	very efficient	very good

ANSWERS TO JURY and REVIEWER'S QUESTIONS

0 (circled)	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 + [2] + [2] + [1] − [0] = [6]

QUESTIONS ASKED

0	too few, mostly irrelevant
1	some relevant, sufficient number, could clear things out
2 (circled)	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 (circled)	good (circled)	relevant parts	many (circled)	mostly adequate (circled)	some (circled)
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 (circled)	too short/long	too short/long	some	partially relevant (circled)	almost no (circled)
2	informative and relevant parts	relevant parts	many (circled)	mostly adequate	some
3	brief but accurate	accurate, conclusive	+ improvement suggestions	fully adequate	good

ANSWERS TO JURY QUESTIONS

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

NOTES:

SCORESHEET

stage: **2**	fight (round no.): **5**
room: **K**	problem no.: **6**
reporter: **Georgia (Zura)**	opponent: **Iran (Aryan)**
reviewer: **Canada (Siyan)**	Juror's name: **G. Jennings**
	signature: *(signed)*

REPORTER

Start from 1 and add/subtract

$1 + [1.5] + [1.5] - [0] = [4]$

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	(some)	(avoided some questions)
1	points cleared		
	(some scientific)	many	cooperated well
2	points cleared		
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

$1 + [1.5] + [1.5] + [1.0] - [0] = [5]$

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)
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

$1 + [2.5] + [1.5] + [1.0] - [0] = [6]$

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
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

stage:	2	fight (round no.):	5	room:	K	problem no.:	6	Juror's name:	Andres Köslin
reporter:	GE	opponent:	IR	reviewer:	CA			signature:	_(signature)_

REPORTER
Start from 1 and add/subtract

1 + [2] + [1] − [1] = [3]

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	*almost no, chaotic*
	only technical	*some*	avoided some questions
	points cleared		
	some scientific points cleared	many	cooperated well
2	interesting points discussed	+ data/theory convincingly supported	answered directly to most questions
3			
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] + [1] + [0] − [0] = [3]

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 + [3] + [1,5] + [0,5] − [0] = [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
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

stage: 2   fight (round no.): 5   room: K   problem no.: 8   Juror's name: Zuzana Cocolov

reporter: Riva Joshi (Georgia)   opponent: Aryan Yusufi (Iran)   reviewer: Liyan He (Canada)   signature: Cocolov

REPORTER

Start from 1 and add/subtract

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

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared		cooperated well ✓
	some scientific	many	
2	points cleared		
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

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

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

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

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:

REPORTER

Start from 1 and add/subtract

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

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some ✗	avoided some questions
1	points cleared		cooperated well ✓
	some scientific ✗	many	
2	points cleared		
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: Difficult to follow his report, speaks very quickly almost to himself only, not effectively presenting his material to an audience. Too fast, not clear in details, unclear explanation to any specifics.

OPPONENT

Start from 1 and add/subtract

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

QUESTIONS ASKED

0	almost no, irrelevant
	some relevant, aimed at resolving
1	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

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

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, not	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:

REPORTER

Start from 1 and add/subtract

$1 + \boxed{2.5} + \boxed{1} - \boxed{0} = \boxed{5}$

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared		cooperated well
	some scientific	many	
2	points cleared		
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:

⌐this is very hard
to judge in this fight

OPPONENT

Start from 1 and add/subtract

$1 + \boxed{1} + \boxed{0.5} + \boxed{0.5} - \boxed{0} = \boxed{3}$

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

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

QUESTIONS ASKED

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

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

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared		
	some scientific ✓	many ✓	cooperated well ✓
2	points cleared		
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

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

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

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

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

stage: **1**	fight (round no.): **5**
reporter: **CANADA** Xiaoyang Chen)	opponent: **GEORGIA** Giorgi Tsereteli
reviewer: **IRAN** mina Biki	room:
problem no.: **8**	Juror's name: **CHAN TAW KUEI**
	signature: **K CHAN**

REPORTER

Start from 1 and add/subtract

$1 + \boxed{2.5} + \boxed{2.5} - \boxed{0} = \boxed{6}$

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						
5	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	some aspects above average
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared	✗	cooperated well
2	some scientific ✗ points cleared	many ✗	
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

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

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

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

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 op. ✗
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: Expressed very little opinion of her own, used only 3 out of 4 mins allowed. Could have covered more issue.

SCORESHEET

stage: 1 **fight (round no.):** 5 **room:** K **problem no.:** ~~B~~ 8 **Juror's name:** Chrisy Du

reporter: Canada — Xiaogang Chen **opponent:** Georgia — Giorgi Bughaia **reviewer:** Iran / Mina Beike **signature:** [signature]

REPORTER

Start from 1 and add/subtract

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

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared		
	(some scientific points cleared)	(many)	(cooperated well)
2			
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

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

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

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

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

stage: **1** fight (round no.): **5**, room: **K** problem no.: **8** Juror's name: **G. Jennings**

reporter: **Canada (Xiaoyang)**, opponent: **Georgia (Giorgi B)** reviewer: **Iran (Mina)** signature: _[signature]_

REPORTER

Start from 1 and add/subtract

$1 + \boxed{2.0} + \boxed{2.0} - \boxed{0} = \boxed{5}$

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some
1	points cleared		questions
	some scientific points cleared	(many)	cooperated well
2			
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

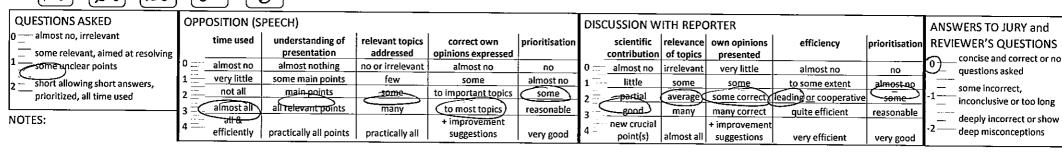|	
0	concise and correct or no questions asked
-1	some incorrect, inconclusive or too long
-2	deeply incorrect or show deep misconceptions

NOTES:

OPPONENT

Start from 1 and add/subtract

$1 + \boxed{1.0} + \boxed{2.0} + \boxed{2.0} - \boxed{0} = \boxed{6}$

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

$1 + \boxed{1.0} + \boxed{1.0} + \boxed{1.0} - \boxed{0} = \boxed{4}$

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:

REPORTER

Start from 1 and add/subtract

1 + [2] + [2] - [0] = [5]

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						
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

DISCUSSION WITH OPPONENT

	scientific contribution	relevant arguments/responses	efficiency
0	almost no	too few	almost no, chaotic
	only technical	some	avoided some questions
1	points cleared		(cooperated well)
2	some scientific points cleared	(many)	
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] + [1] - [0] = [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
2	not all	main points	(some)	to important topics	(some)
3	almost all	all relevant points	many	to most topics	reasonable
4	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] + [0] + [1] - [0] = [3]

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:

IYPT 2017 SINGAPORE 30th

Juror	Team	Stage 1 Canada Rep	Stage 1 Georgia Opp	Stage 1 Iran Rev	Stage 2 Georgia Rep	Stage 2 Iran Opp	Stage 2 Canada Rev	Stage 3 Iran Rep	Stage 3 Canada Opp	Stage 3 Georgia Rev	Stage 4 Rep	Stage 4 Opp	Stage 4 Rev
Zuzana Cocuzova		6	6	4	6	3	8	3	8	7			
Tan Kuei Chan		6	6	5	4	4	7	5	8	6			
Chrisy Bu		4	6	4	5	3	6	3	8	6			
Gavin Jennings		5	6	4	4	5	6	4	8	7			
Andrei Klishin		5	5	3	3	3	6	5	9	6			
Acting Team Member		Xiaoyang Chen	Giorgi Butbaia	Mina Bejki	Zura Jashi	Aryan Yousefli	Siyan He	Ayda Rasouliastani	Patrick Prochazka	Sergo Polyakov			
Rejected Problems		NIL			NIL			NIL					
Accepted Problem		8. Visualising density			6. Fast Chain			13. Resonating glass					

Signature Fight Assistant: ....

Double-checked with Scoring Guidelines by second Fight Assistant (signature): ....