

prioritisation

no

almost no

reasonable

very good

scientific

contribution

almost no

littje

partial

good

new crucial

point(s)

relevance

of topics

irrelevant

some

avelæge

many

almost all

own opinions

presented

very little

some

some correct

many correct

suggestions

+ improvement

efficiency

almost no

to some extent

quite efficient

very efficient

ading <u>or</u> cøoperative

prioritisation

no

almost no

somé

reasonable

very good

REVIEWER'S QUESTIONS

questions asked

some incorrect,

concise and correct or no

inconclusive or too long

deeply incorrect or show

deep misconceptions

REVIEWER Start from 1 and add/subtract $1 + \left(\frac{1}{15} + \frac{1}{15} - \frac{1}{15$														
QUESTIONS ASKED 0 — too few, mostly irrelevant		IEW OF REPOR	discussion	own opinions	pros & cons	prioritisation		/IEW OF OPPO	OSITION discussion	own opinions	pros & cons	prioritisation		WERS TO JURY STIONS
some relevant, sufficient number, couldclear things out	0 ³	& understanding poor	analysis almost no	too few	irrelevant	no	0 _	summary Boor	analysis almostrno	too few	irrelevant	no.	$ar{p}$	concise and correct or no questions asked
most time used, many unclear points resolved, aimed at both rep. and opp.	1 - 2	\ \ \ .	too short/long	1	partially relevant mostly adequate		2	too short/long			partially relevant	X	-1	some incorrect, inconclusive or too long
3 — +short, apt and clear, well prioritized time managed efficiently	3 ===	detailed, complex	accurate, conclusive	+ improvement suggestions		good	3	brief but accurate	accurate, conclusive	+ improvement suggestions		good	-2 	deeply incorrect or show deep misconceptions

NOTES:

NOTES:

almost no, irrelevant

some unclear points

___ short allowing short answers,

prioritized, all time used

some relevant, aimed at resolving

time used

almost no

very little

not all

almost all

efficiently

understanding of

presentation

almost nothing

some main points

main points

all relevant points

practically all points

relevant topics

addressed

no or irrelevant

few

some

malgy

practically all

correct own

opinions expressed

almost no

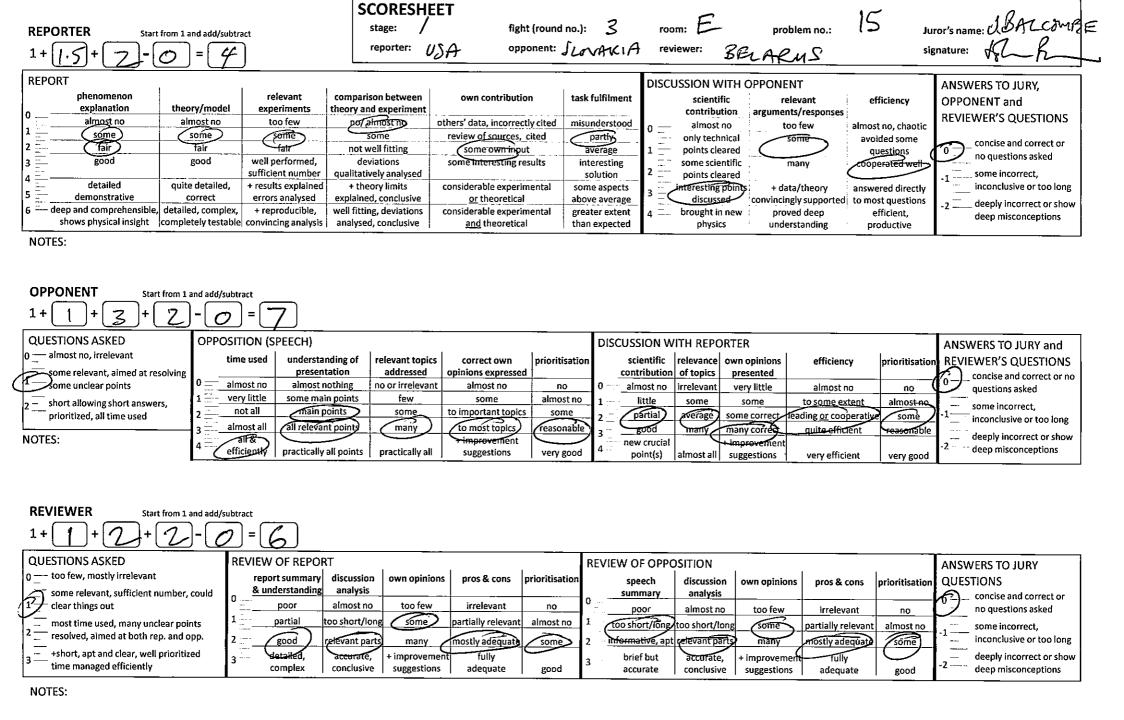
some

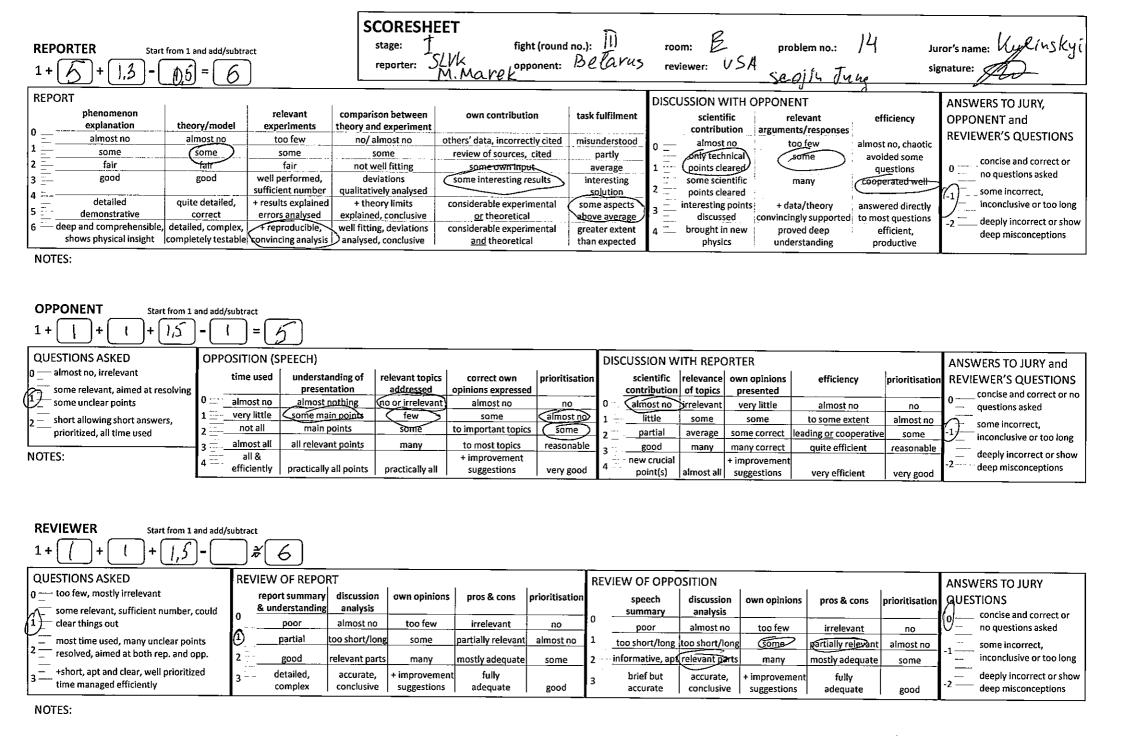
to important topics

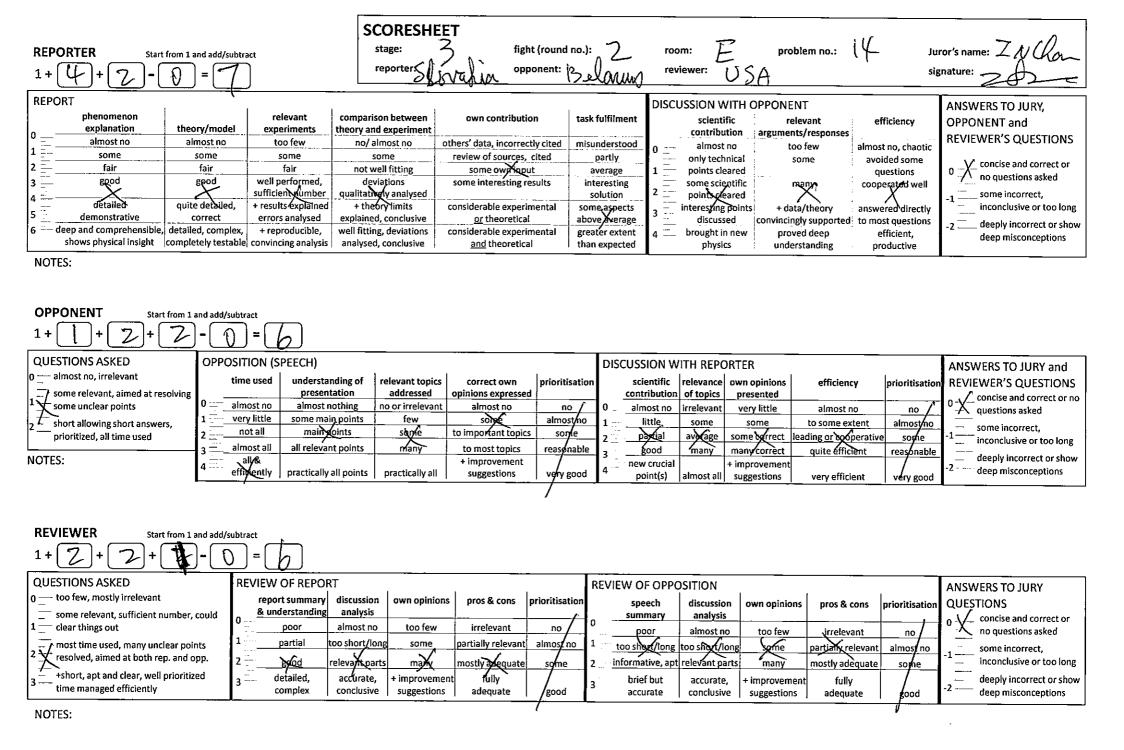
to mosYtopics

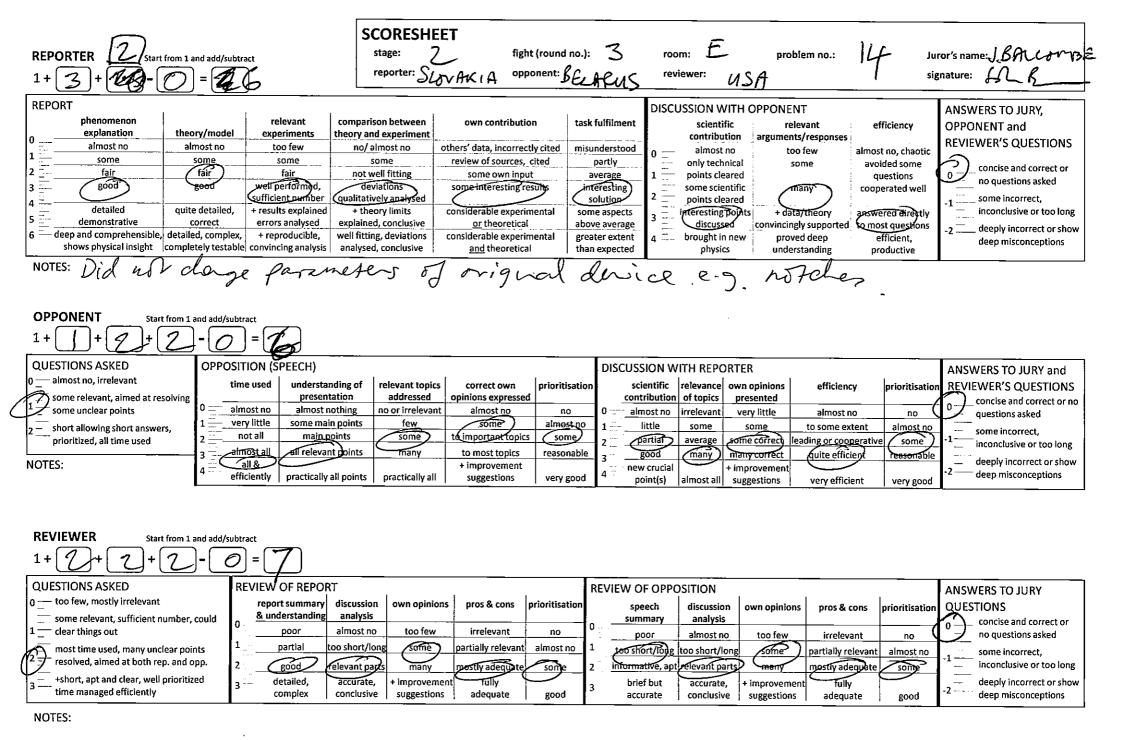
+ improvement

suggestions



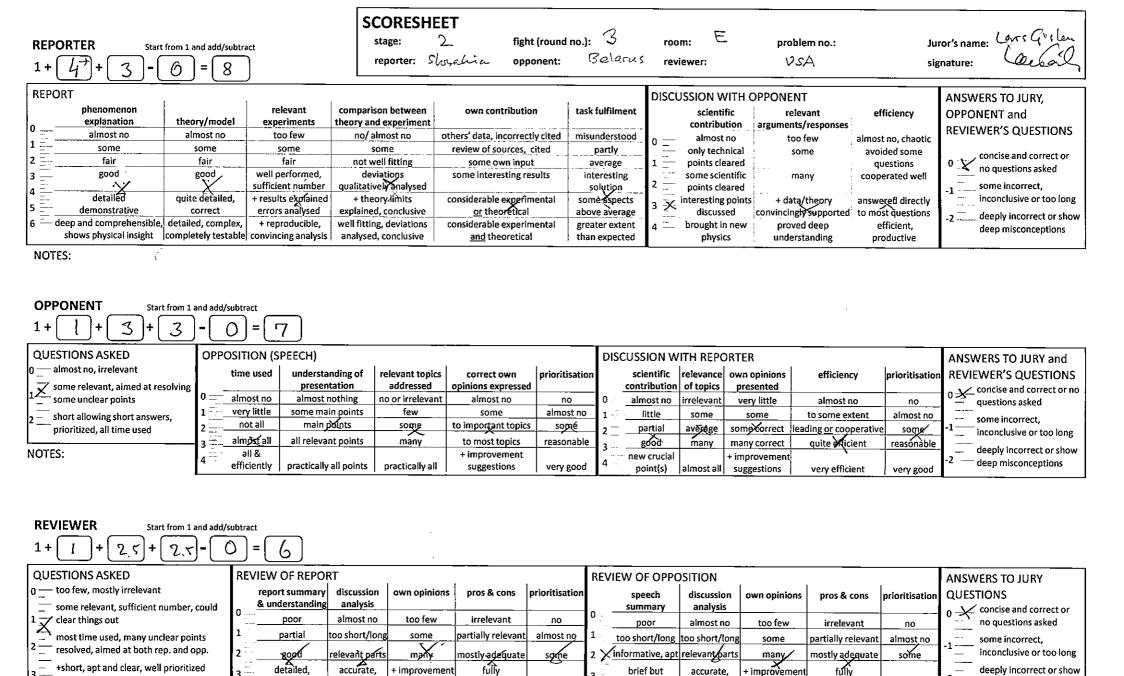






					SC	ORESHEE						_		,	۱) г.	Y	วันกะ	7-Gui Yo	
REPORTER	Start (from 1 and add/s	ubtract		I .	age: <u> </u>		nt (round r			roon		probl	em no.: /	7	, Jui	or's nat	ie:	1
1+5+	2-	<u>)</u> = [5	7		re	eporter: SLO	VAKZA OPE	oonent:	BEL	<u>ALUS</u>	revie	ewer: US	5 <u>A</u>			sig 	nature:	10a	z
REPORT								-		D	ISCUS	SSION WIT	H OPPONEN	 T			ANSM	ERS TO JURY,	
n expla	omenon anation	theory/mode	I	elevant eriments	compariso theory and	n between experiment	own contributi	on	task fulf			scientific contributio	rele		eff	iciency	OPPO	NENT and	IONC
1 .	ost no	almost no		oo few	no/aln	1"	thers' data, incorrec		misunde		<u></u> .	almost no	į.	few		no, chaotic	REVIE	WER'S QUESTI	ON2
	ome lair	some fair		some fair	soi yo	me Il fitting	review of sources,		part			only technic	i	me		ded some	.Y	concise and corre	ect or
	ood	good	well	performed,		itions	some own inpu		avera interes		_	points cleare some cienti	_ i	inv :		estions		no questions aske	
4 				ent number		ky analysed	oome meresting i		solut	~		points cleare		iny	coope	rated well		some incorrect,	
	ailed	quite detaile		its explained	1	•	considerable experi		some as			nteresting po		theory	answei	red directly		inconclusive or to	o long
	nstrative	correct`		rs analysed	explained,		or the oretical		above av			discussed				t questions	-2	deeply incorrect of	or show
6 — deep and con shows phy		completely test		oroducible, cing analysis	well fitting, analysed,	i i	considerable experi and theoretica	j.	greater			brought in ne		d deep		ficient,	i _	deep misconcept	ions
<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			cing entitivata	- analyseu,		and theoretica	31)	than exp	ected	-	physics	- unders	tanding	pro	ductive	<u> </u>		
OPPONENT 1 +																			
QUESTIONS AS almost no, irr			-		1	ı		1				1	1		i				
_			time used		_	elevant topics	correct own	prioritisa	ation	scienti		II	vn opinions	efficiency	y	prioritisation		WER'S QUEST	
1 some relevan	nt, aimed at res		almost no	presen almost		addressed o or irrelevant	opinions expressed almost no		-	contribu	_		presented				o×-	concise and correc	ct or no
	•		very lixtle	some ma	·	few	sone	no almost		almost little		rrelevant some	very little	almost no		no	4.	questions asked	
2 short allowin prioritized, al		s, - :::	notall		points	some/	to importent topic	_		partja	_		some ome gorrect lea	to some extending or coop		almost no	1	some incorrect,	
prioritized, ai	ii tiine useu		almost all	all releva	nt points	maky	to most topics	reasona	able -	good	d .		any correct	quite efficie		reaxonable		inconclusive or too	o long
NOTES:			all &	-			+ improvement		3	new cru			mprovement	quite emicie	-111	reasonable		deeply incorrect o	
		4 ===	efficiently	practically	all points	practically all	suggestions	very go	ood 4	point(l l	uggestions	very efficie	ent	very good	-2,	deep misconception	ons
REVIEWER Start from 1 and add/subtract 1 + 2 + 2 + 2 - 0 = 7																			
QUESTIONS AS			REVIEW	OF REPOR	RT				REV	IEW OF O	PPOS	SITION					ANSW	ERS TO JURY	
0 too few, mos	stly irrelevant		_	rt summary	discussion	own opinions	pros & cons	prioritisati	on	speech	ւ	discussion	own opinions	pros & co	ons l	prioritisation	QUES.	rions	
some releva	nt, sufficient nu	ımber, could	0 & un	derstanding	analysis		_		⊣ 。	summar	ry	analysis	<u> </u>		····			concise and corre	ect or
1 — clear things of	out			poor	almost no	too few	irrelevant	по		poor		almost no	too few	irreleva	nt	no	, <u>,</u> <u>,</u> ∠	no questions aske	
	șed, many uncle		1	partial	too short/lon	gsome	partially relevant	almost no	1	too short/	long to	oo short∮long	some	partially rel		almost no	<u> </u>	some incorrect.	
² resolved) ə/n	ned at both rep	o. and opp.	2	good	relevant parts	s nhany	mostly zdequate	some	2	informative		elevant parts	many	mostly		some	-1	inconclusive or to	oo long
+short, apt a	and clear, well p	orioritized		letailed,	accurate,	+ improvemen	V-V-	- 30 <u>c</u>	_	brief bu		accurate,	+ improvemen	1	-1	30.02		deeply incorrect of	_
time manage	ed efficiently		3	complex	conclusive			good	3	accurate		conclusive	suggestions	adequat		good	-2	deep misconcepti	

NOTES:



accurate.

conclusive

suggestions

adequate

good

accurate

deep misconceptions

NOTES:

time managed efficiently

complex

conclusive

suggestions

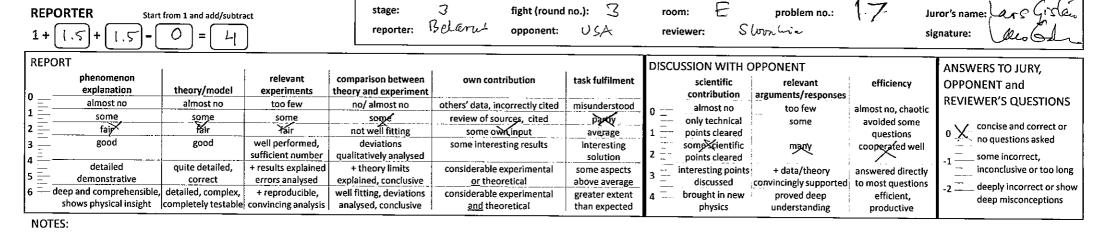
adequate

good

			SCORESHE					17	
REPORTER Start fr	rom 1 and add/subtra	ct	stage:	fight ((round no.): 🤰	room:	problem no.:) / L	ror's name: J. BALCOMB
1+2.5+2-	0=6		reporter: BE	CARUS OPPOI	nent: USA	reviewer: SU	NAKIA	si;	ror's name: J.BRCFMS gnature: FR
REPORT		 	_		<u> </u>	DISCUSSION WITH	OPPOMENT	<u> </u>	ANSWERS TO HIRV
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution			relevant arguments/responses	efficiency	ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS
almost no	almost no some	too few some	no/ almost no some	others' data, incorrectly review of sources, cit			too few	almost no, chaotic	VEALEMER 2 MOESTIONS
2 fair	Tair	fair	not well fitting	some own input	ted partly average	only technical 1 points cleared	some	avoided some questions	concise and correct or
3	\$000	vell performed	deviations	some interesting resu	ults interesting	some scientific		cooperated well	no questions asked
4detailed	quite detailed,	+ results explained	qualitatively analysed + theory limits	considerable experime	solution ental some aspects	points cleared interesting points	ts + data/theory	answered directly	-1 some incorrect, inconclusive or too long
demonstrative	correct	errors analysed 🔀	explained, conclusive	or theoretical	above average	discussed	convincingly supported		deeply incorrect or show
6 — deep and comprehensible, of shows physical insight of the comprehensible of the comprehensible.		+ reproducible, ' convincing analysis	well fitting, deviations analysed, conclusive	considerable experime and theoretical	ental greater extent than expected	4 =_ brought in new	,	efficient,	deep misconceptions
NOTES:			analysed, conclusive	and theoretical	than expected	physics	understanding	productive	<u> </u>
NOTES.									
OPPONENT Start for	rom 1 and add/subtra	sct							
1+ 1+ (1-5+(-ব্র-ত্রি	= 5							
QUESTIONS ASKED	OPPOSIT	ON (SPEECH)			DISCUS	SSION WITH REPORTE	R		ANSWERS TO JURY and
0 — almost no, irrelevant	time	used understan	ding of relevant topics	correct own		1	opinions efficience	y prioritisation	1
some relevant, aimed at reso		present	ation addressed	opinions expressed			esented	prioritisation	concise and correct or no
some unclear points		ost no almost n					ery little almost no		questions asked
2 — short allowing short answers,	,	t all some main		to important topics	almost no 1 -	/ / / / /	some to some ext	/	some incorrect,
prioritized, all time used	almi	ost all relevan		to most topics	reasonable 2		e correct leading or coop		inconclusive or too long
NOTES:	4 = a	1&		+ improvement		'	ry correct quite efficie provement	ent <u>reasonable</u>	deeply incorrect or show
PROJECTOR .	effic	iently practically a	Il points practically all	suggestions			gestions very efficie	nt very good	-2 deep misconceptions
NOTES: PROJECTOR PROBLEM! E									
DEMENSED	rom 1 and add/subtra	ct							
1+ 1.5 + 2+	2-0	= 7							
QUESTIONS ASKED	RE	VIEW OF REPOR			REVIEW	OF OPPOSITION			ANSWERS TO JURY
0 — too few, mostly irrelevant		report summary	discussion own opinio	ns pros & cons pri			own opinions pros & co	ans mrioritiontian	
some relevant, sufficient nur	mber, could 0 -	& understanding	analysis	<u> </u>	sui	nmary analysis	own opinions pros & &	ons prioritisation	concise and correct or
1 clear things out	-		almost no too few	irrelevant	no0	ooor almost no	too few irreleva	nt no	no questions asked
most time used, many unclea	1		oo short/long some			nort/long too short/long	some partially rel	evant almost no	some incorrect,
resolved, aimed at both rep.	(1	g 6000 r	levant parts many	mostly adequate	some 2 inform	ative, apt relevant parts	many mostly ade		inconclusive or too long
3 — +short, apt and clear, well pr time managed efficiently	ioritized 3	detailed, complex	accurate, + improvem conclusive suggestion				improvement fully suggestions adequa		deeply incorrect or show deep misconceptions
NOTES:					<u>L</u>			1 0	

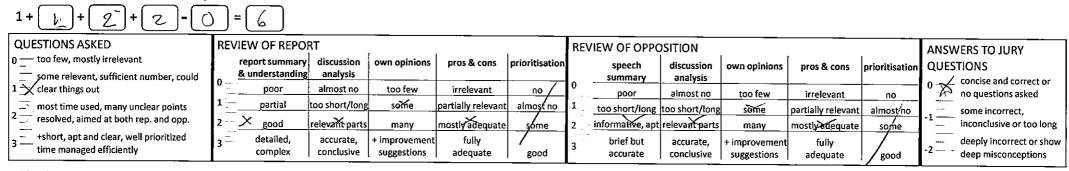
				SCC	JKE2HEE	: I						<u>.</u>	\neg		ρ Ι
REPORTER	Start from 1 and a	add/subtract			ge:	٠ آ	it (round		roc	<i></i>	۸ ،	em no.:	/ Ju	ror's nam	IN Chan
1+3+2] - [0]=	(b)		rep	oorter: B	elarus opi	onent:	USA	rev	riewer: S	lovaki	<u>ኣ</u>	się ––––	nature:	—
REPORT		<u></u>				 -	_		DISC	USSION WIT	H OPPONEN	т	·•	ANSWA	ERS TO JURY,
phenomenon			relevant	comparison	between	own contributi	on	task fulfilme		scientific		vant	efficiency		IENT and
0explanation	theory/		experiments	theory and e						contributio		/responses	- incicincy		VER'S QUESTIONS
almost no some fair	almos		too few	no/ almo		thers' data, incorrec		misundersto	od 0	almost no		few alm	ost no, chaotic	NEVIEV	VER 2 GOESTIONS
2 — Solite — fair	som fai		some fair	som not well		review of sources, some own inpu		partly		only technic		me a	voided some	. X.	concise and correct or
3 = / B600	goo		ell performed,	deviat		some interesting r		average interesting	;··	points clear some Sciepti		any co	questions operated,well	ا کے	no questions asked
		suf	fficient-number	qualitatively	analysed			solution	2 =	points clear		~ "	operates, wen		ome incorrect,
detailed 5 = demonstrative	quite de corre		esults explained	+ theory		considerable experi		somelaspec		interesting po			wered directly		nconclusive or too long
6 deep and comprehe			rrors analysed reproducible,	explained, c well fitting, o		or theoretica considerable experi		above avera		discussed	,		nost questions		deeply incorrect or show
shows physical ins			vincing analysis	analysed, co		and theoretica		than expect		brought in no physics		d deep tanding	efficient, productive		leep misconceptions
NOTES:	•		_											<u> </u>	 .
110125.															
			•												
ODDONENT			•												
OPPONENT	Start from 1 and	add/subtract													
1+ 1+ 2	<u>]+[]-</u>	<u> </u>													
QUESTIONS ASKED	0	PPOSITION	I (SPEECH)				-	DISC	USSION W	ITH REPOR	TFR			ANSW	ERS TO JURY and
0 almost no, irrelevant	i	time use	ed understan	ding of re	levant topics	correct own	prioritis			relevance or		efficiency	Indiaritication		VER'S QUESTIONS
some relevant, aimed			present	~	addressed	opinions expresse	1.		<u>contribution</u>	1	presented	emciency	prioritisation		oncise and correct or no
ome unclear points		almost n		-	or irrelevant	almost no	no	0	almost no	irrelevant	very little	almostro	ng	1º Z C,	uestions asked
2 - short allowing short a	nswers,	_			few,	solve	almos		little	sixone	sõnde	to some extent	almost no		ome incorrect,
prioritized, all time us		not all	- <i>I</i>		some	to important topic	1	Z ·	partial	average so	ome correct lea	ading <u>or</u> cooperat	ive some	- 1	conclusive or too long
NOTES:		almost a	all all relevan	t points	many	to most topics	reason	3	good		any correct	quite efficient	reasonable	I	eeply incorrect or show
NOTES.	4	efficient	Ty practically a	III points p	ractically all	+ improvement suggestions	very g		new crucial point(s)	1	mprovement		1./		eep misconceptions
	<u> </u>	/_	. ,				17.18		politics	almost all s	uggestions	very efficient	very good	L	
							-								
REVIEWER	Start from 1 and	add/subtract													
1. (2) (2)). [
	J*((<i>()</i>]=	l b l												
QUESTIONS ASKED		REVIE	W OF REPOR	 Г				REVIEW	V OF OPPO	OSITION				ANCUA	The To Hier
0 — too few, mostly irrel	evant		1	discussion	own opinion:	s pros & cons	prioritisati			1	l	1 _	1		RS TO JURY
some relevant, suffic		_{1d} &	understanding	analysis	OWN OPHNOM.	pros & cons	prioritisati	· I	speech summary	discussion analysis	own opinions	pros & cons	prioritisation	QUEST	i
1 clear things out		" O	poor	almost no	too few	irrelevant	ло	0 -	poor	almost no	too form	igrolesses	 / _	0 / \	concise and correct or no questions asked
most time used, mar	v unclear points	1	partial to	oo short/long	some	partially relevant	almost n	0 1		too short/long	too few sørne	irrelevant partially relevan	no/		-
2 resolved, aimed at b		,		7-			_/		/ 🥆	relevant parts	1			-1	ome incorrect, nconclusive or too long
+short, apt and clear		-		elevantparts	pratty	mostly adequate	some			<u>'</u>		mostly adequal	e some		~
3 — time managed efficie		3	detailed, complex	accurate, conclusive	+ improvement suggestions		good	13	brief but accurate	accurate, conclusive	+ improvemen	,		3	leeply incorrect or show
L	<u>.</u>		-211161401		22662220113	1 adequate	{ soou		-		suggestions	adequate	food	L	leep misconceptions
NOTES:															

SCORESHEET



SCORESHEET

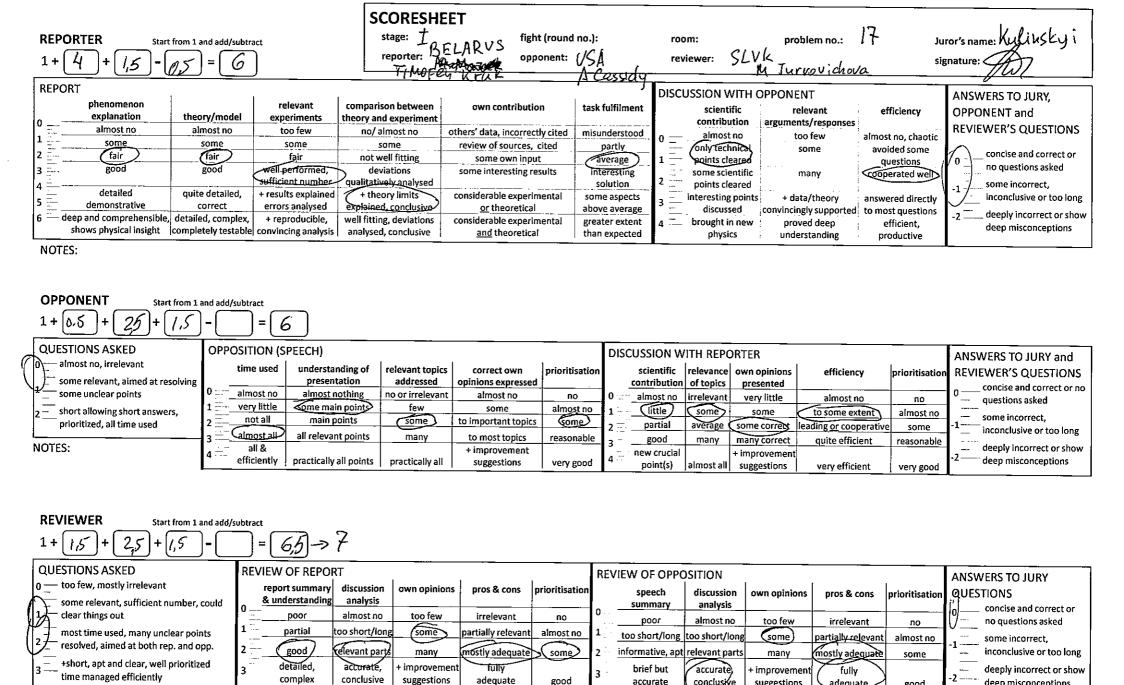
OPPONENT Start from 1 and add/subtract $1 + \left(\begin{array}{c} 1 \\ 1 \end{array} \right) + \left(\begin{array}{c} 1 \\ 1 \end{array} \right) - \left(\begin{array}{c} 1 \\ 1 \end{array} \right) = \left(\begin{array}{c} 1 \\ 1 \end{array} \right)$													
QUESTIONS ASKED	OPP	OSITION (S	PEECH)				DIS	CUSSION W	ITH REPO	ORTER			ANSWERS TO JURY and
0 — almost no, irrelevant Some relevant, aimed at resolving		time used	understanding of presentation	relevant topics addressed	correct own opinions expressed	prioritisation		scientific contribution	1	own opinions presented	efficiency	prioritisation	REVIEWER'S QUESTIONS
some unclear points	0 ===	almost no	almost nothing	no or irrelevant	almost no	no	0 ;	almost no	irrelevant	very little	almost no	по	guestions asked
	1 —	very little	some main points	few	some	almost no	1 -	little	sògre	sopré	to some extent	almost no	
prioritized, all time used	2 🚟 -	not all	main points	sopre	to important topics	sògre	, -	partial	average	some correct	leading or seoperative		-1 some incorrect, inconclusive or too long
	3 ≔~_	almost all	all relevant points	many	to most topics	reasonable		good	many	many correct		reasonable	
NOTES:	4	all & efficiently	practically all points	practically all	+ improvement suggestions	very good	4 -	new crucial point(s)	almost all	+ improvement		very good	-2 — deeply incorrect or show deep misconceptions



NOTES:

REVIEWER

Start from 1 and add/subtract



accurate

conclusive

suggestions

good

adequate

deep misconceptions

NOTES:

					so	CORESHEE	T			_	<u></u>		117	Young-Gui Youn			
REPORTER	Start	from 1 and ad	ld/subtra	:t	!	stage: 3	fig	ht (round i	no.):	\sim	oom: E		em no.:	Ju	ror's name	#	
1+[3]+[7.9-(=	6		L I	reporter: BE	LALUS or	US	<u>A</u> "	eviewer: 5	OWKI	4	się 	;nature: ¿	you		
REPORT				 -	-					DIS	CUSSION WIT	H OPPONENT	 Г		ANSW/F	RS TO JURY,	
phenom explana		theory/m	odel	relevant experiments	, ,	on between d experiment	own contribut	ion	task fu	Ifilment	scientific contributio	relev	vant	efficiency	OPPONI	ENT and	
0 almost		almost		too few			thers' data, incorre		misuno	erstood 0 -	almost no			st no, chaotic	REVIEW	/ER'S QUESTIONS	
2 som		some		some	- · -	ome	review of sources,			rtly	 only technic 			oided some	>0	oncise and correct or	
3 - 101		fair gqod	,	fair well performe		ell fitting liations	some own inp			rage 1 =	 points/clear some/scienti 	ed ific myz	X.,	que tions		o questions asked	
3 =	•			sufficient numb		ely analysed	zome mæsezung i			ition 2	points clear	mic⊹ mjar edi⊹	iny cod	pefated well	-1 ····· so	ome incorrect,	
detail		quite deta	- 1	+ results explai		J-'	considerable experi	imental		spects	interesting po	•	theory ansv	vered directly	-1—	nconclusive or too long	
6 deep and comp		correc		errors analyse		, conclusive	or theoretical		above	average	discussed	- 1	supported to m	ost questions	.7 d	leeply incorrect or show	
shows physic				reproducibl + convincing anal		fitting, deviations considerable experimental lysed, conclusive and theoretical			-	r extent 4 🗀	-	prought in new proved deep physics understanding		efficient,	_	eep misconceptions	
NOTES:		toompiccely c	Cotabic	convincing arian	7313 Ulluly3CU	—	and theoretic	aı (than e.	xpected	physics	underst	randing p	roductive			
OPPONENT 1 +	+1+2+2-6=6																
		OP		1			1		1	DISCUSSION	WITH REPOR	TER			ANSWE	ERS TO JURY and	
0 — almost no, irrel			time	l l	rstanding of	relevant topics	correct own	prioritis	ation	scientific	1 1	,	efficiency	prioritisation	REVIEW	VER'S QUESTIONS	
some relevant,		solving 0 =	alme		sentation ost nothing	addressed no or irrelevant	opinions expresse almost no	d no				presented			10.7	ncise and correct or no	
		1 ≡			main points	few	some	alıqıbsi		D <u>.: </u>	soxie	very little	almost no	no	₹ 🔼 qu	restions asked	
2 — short allowing s prioritized, all ti		rs,			points	some	to important topic			partial		-/ `	to some extent ding or cooperati	almost no ve some	1 _	ome incorrect,	
prioritized, air t		3 =	almo	stall all rel	evant points	many	to most topics	reason	able .	good	1 1	nany correct	quite efficient	reasonable		conclusive or too long	
NOTES:		4		&			+ improvement			new crucia		mprovement	quite cittotette	Teasonable	4 ~	eeply incorrect or show	
		Ľ	effici	ently practic	ally all points	practically all	suggestions	very g	ood '	point(s)	almost all s	uggestions	very efficient	very good	de	eep misconceptions	
REVIEWER 1 + 2 +																	
QUESTIONS ASK			KE	VIEW OF REF	1	1	1 -	1		VIEW OF OP	POSITION	1	ı			RS TO JURY	
0 — too few, mostl			. 1	report summa & understand	• 1	own opinion:	s pros & cons	prioritisati	on	speech	discussion	own opinions	pros & cons	prioritisation	QUESTIC	ONS	
some relevant,		umber, could	0 ::	poor	almost no	too few	irrelevant	no	0 -	summary	analysis	 	 			oncise and correct or	
		laan wainte	1 -	- partial	too short/lo		partially relevant		_ 1 _	poor	almost no	too few	irrelevant	- 10 - 10		o questions asked	
2 most time used resolved, sime	-	•			1	7	_	almost n	<u>- 1 </u>	too short/lon			partially relevan		1 - 1 	ome incorrect,	
			2 _		relevantoai		mostlyadequate	some	2 :-	informative, a	pt relevant parts	many	mostly adequate	some	-	nconclusive or too long	
3 — +short, apt and time managed		μιιοτιτίzea	3	detailed, complex	accurate, conclusive	1 .		good	3	brief but accurate	accurate, conclusive	+ improvement suggestions	t fully adequate	eood		eeply incorrect or show eep misconceptions	

NOTES:

Signature Fight Assistant:.....book

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

Juror John Volodymyr Kulinskyi Young-Gui Youn Lars lat Newy Chan **Accepted Problem** Balcombe Gislen **Rejected Problems Acting Team Member** Team McQuiston McDunston COMOr ASM Q15 Rep 4 4 F S 5 Marth Stage 1 Magnek Opp Fight Assistants: Ng. Weihan., Yeong Zhan (Kana 5 3 _1 F 9 Belarns llia Dotsonko Rev (U 9 S 9 0 Marek Martin Slovalcia Rep F Ø 9 9 4 6 Penyazkov Belaras Stage 2 17. (7)eb 0pp 4 5~ S 4 6 Bung Seojin Rev 4 USA 9 W. 0/ 9 4 Timoto KNUK pelarus Rep 平 0 5 ゼ 9 00 pnna Stage 3 Cassidy 0pp 5 USA 0 9 S d urkovi coto michaela Slovakics P Rev 4 9 4 5 Rep Stage 4 Opp Rev

Round: Room:

W

171