REPORTER Start from	om 1 and add/subtra	act	奥 姆里	SCORESHEET Stage: 1 Fight 1 B, F		sig	mi (Opp) Ru	issia: Jalvac	Widmann, Eberhard
phenomenon explanation almost no some fair good detailed demonstrative deep and comprehensible, d shows physical insight		relevant experiments too few some fair well performed, sufficient number + results explained errors analysed + reproducible, convincing analysis	some not well fitting deviations qualitatively analysed + theory limits explained, conclusive well fitting, deviations analysed, conclusive	own contribution others' data, incorrectly cited review of sources, cited some own input + some interesting results considerable experimental or theoretical considerable experimental and theoretical	task fulfilment misunderstood partly average some aspects above average interesting solution greater extent than expected	science communication unclear, chaotic partly clear average some parts well done overall clear, demonstrative + complex concepts well communicated	DISCUSSION WITH (relevant arguments/respor too few some many todata/theory convincingly suppo proved deep understanding	reporter's conduct at the discussion poor some aspects fine good some aspects efficient overall efficient	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions
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1 + + + 2 + QUESTIONS ASKED too few, mostly irrelevant relevant, meant to clarify ur suitably allotted to Rep & most time used	Opp,	VIEW OF REPORT report evaluation & understanding poor/wrong partial p	pros & cons prioritis irrelevant no partially relevant som	evaluation poor/wrong too short/long		prioritisation no some DISCUSS dis evi ali	SION ANALYSIS scussion correct own opinions most no too few short/long @some vant parts many	MISSED POINTS POINTED OUT -1 irrelevant 0 none	ANSWERS TO JURY QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long
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REPORTER Start 1 + 2 + 1	from 1 and add/subtra	act Y		SCORESHEET Stage: 1 Fight 1 B, F	Problem: Re	e Iran: Mollen	Opp Russi	ia: Thurs	Mathelitsch, Leopold MoofRev
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REPORT							DISCUSSION WITH		ANSWERS TO JURY,
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communicati	relevant arguments/respon	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
almost no	almost no	too few		others' data, incorrectly cited	misunderstood	unclear, chaotic		discussion	REVIEWER'S QUESTIONS
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fair	fair	fair well performed,	not well fitting deviations	some own input	average	average	1 many	some aspects fine	no questions asked
4 good	good	sufficient number	qualitatively analysed	+ some interesting results	some aspects above average	some parts well done			some incorrect,
5 detailed	quite detailed,	+ results explained	+ theory limits	considerable experimental	interesting	overall clear,	+ data/theory		inconclusive or too long
6 demonstrative	correct	errors analysed	explained, conclusive	or theoretical	solution	demonstrative		red emoient	-2 deeply incorrect or show
	mpletely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts w communicated	ell 3 — proved deep understanding	overall efficient	deep misconceptions
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unclear points in the report + short, apt and clear, well			ew some	some reasonab		few soil			no questions asked
	and the same of th		me osome correc		A	some some		reasonable	some incorrect,
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NOTES:	4 practical		+ improveme suggestions	nt very good +	nev		vement overall efficie	. A	deeply incorrect or show deep misconceptions
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REVIEWER Start fro	om 1 and add/subtra	± () -	0=9						
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		poor/wrong	irrelevant no	0 poor/wrong	irrelevant	no 0	almost no too few	-1 irrelevant	no questions asked
+ suitably allotted to Rep & 0	Орр,	partial p	artially relevant som	ie 1 (atoo short/long	partially relevant	some	o short/long some (7	none	some incorrect,
	2-	good n	nostly adequate reason	- 7	0	reasonable/	elevant parts many	-	inconclusive or too long
2 + short, apt and clear, well p time managed efficiently	rioritized,	detailed,	fully	condensed &	fully	- 2	accurate, fully	1 relevant,	deeply incorrect or show
unic managed emdently	3	complex	adequate goo	d 3 accurate	adequate	good 4	conclusive adequate	constructive	-2 — deep misconceptions
NOTES:									IYPT - March 2019

REPORTER	Start from 1 and add	/subtract	■ ※ ■	SCORESHEET Stage: 1 Fight 1 B,	Problem: 14	(8.5)		Rimit.	2.	Hömöstrei, Mihály
1 + 2, T	+ 11 - 0:	: [5]	回搬	Gymnasium Freist	adt: Alna ?	Iran: Ra	la 5. (0	pp) Rus	sia: Jahrach	(Rev)
REPORT								CUSSION WITH OF	0	ANSWERS TO JURY,
phenon explan	theory/mo	del relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science commi	unication	relevant arguments/response	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
almos				others' data, incorrectly cited		unclear, ch		too few	discussion	REVIEWER'S QUESTIONS
2 💉 som	CONSTRUCTOR OF THE RESTOR CONSTRUCTOR AND A STATE OF THE SECURIOR	some fair X	somè	review of sources, cited×		partly cle		some	some aspects fine	concise and correct or
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4 goo	d good	sufficient numb		+ some interesting results	above average	well dor		+ data/theory	some aspects	-1 some incorrect,
5 detai				considerable experimental	interesting	overall cle		convincingly supporte		inconclusive or too long
6 demons 7 deep and com shows physi	prehensible, detailed, com	errors analysed plex, + reproducible stable convincing analy	e, well fitting, deviations	or theoretical considerable experimental and theoretical	solution greater extent than expected	+ complex cond	cepts well 3 —	proved deep understanding	overall efficient	deeply incorrect or show deep misconceptions
	Start from 1 and add + 2 + 2	TION (SPEECH) Inderstanding of presentation almost nothing one main points	evant topics own opinion presented or irrelevant too few few some	no poor some reasocial	DISCUSSI r scient 0 ==== al	most no few	own opinions presented too few some	opponent's conduct the discussion poor some aspects fine	no some	ANSWERS TO JURY and REVIEWER'S QUESTIONS concise and correct or no questions asked some incorrect,
prioritized, a	Il time used 2 💥 —	main points	some some correc	\ J/	2	Χ.	some correct	good	reasonable	inconclusive or too long
NOTES:	3	I relevant points	many many correct + improveme		3		many correct improvement	some aspects efficie	ent fair	deeply incorrect or show
VOTES.	4 pr	actically all points pr	actically all suggestions	Very good	A contract of	point(s)	suggestions	overall efficient	very good	deep misconceptions
REVIEWER 1 + 0 QUESTIONS ASK	Start from 1 and add	/subtract O	- () = (4) DRT	REVIEW OF OPPO	DSITION		DISCUSSION A	ANALYSIS N	MISSED POINTS	ANSWERS TO JURY
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1 + guitably alle		poor/wrong	irrelevant no	0 poor/wrong	irrelevant	no 0	almost no		irrelevant	no questions asked
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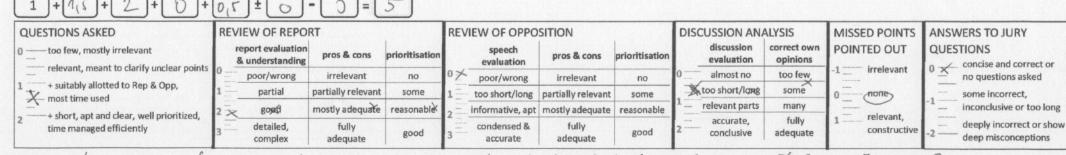
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REPORTER Start	t from 1 and add/subtra	act		SCORESHEET	4	•	sign	19GIX		Widmann, Eberhard
1 + 1/4 + 2) - () = ()	77	经来	Stage: 2 Fight 1 B,	Problem: /	0		C-00		dt: Reviewer
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REPORT	1		ı	,			DIS	CUSSION WITH OF	PPONENT	ANSWERS TO JURY,
phenomenon	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communicat	tion	relevant	reporter's conduct at the	OPPONENT, and
0 explanation almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	-	arguments/response	discussion	REVIEWER'S QUESTIONS
1 some	some	some	some	review of sources, cited	partly	partly clear	0 =	too few	poor	concise and correct or
2 fair	fair	fair	not well fitting	some own input	average	average	1=	some	some aspects fine	no questions asked
good good	good	well performed,	deviations qualitatively analysed	some interesting results	some aspects above average	some parts well done		many	good	some incorrect,
5 detailed	quite detailed,	+ results explained	+ theory limits	considerable experimental	★ interesting	overall clear,	2	+ data/theory convincingly supported	some aspects ed efficient	inconclusive or too long
6 demonstrative	correct	errors analysed	explained, conclusive	or theoretical	solution	X demonstrative		proved deep	V	-2 deeply incorrect or show
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QUESTIONS ASKED	OPPOSITION	N (SPEECH)			DISCUSSI	ON WITH REPORT	TER			ANSWERS TO JURY and
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relevant, aimed at resolv	ing almos		ressed presented rrelevant too few				o few	the discussion	no	0 concise and correct or
unclear points in the rep	OFT		ew / some	no poor Some reasonal			ome	some aspects fine		no questions asked
2 - + short, apt and clear, we	ell x mai		ome some corre	/ /	A	1/1	e correct	good	reasonable	some incorrect, inconclusive or too long
prioritized, all time used	all rele	vant points on	nany many corre	ct fair efficier	nt 3 ×	good man	y correct	some aspects efficie	ent fair	
NOTES:	4 practica	lly all points pract	ically all + improvem		A -000		rovement	overall efficient	very good	deeply incorrect or show deep misconceptions
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QUESTIONS ASKED	RE	VIEW OF REPOR	T	REVIEW OF OPPO	OSITION	DISC	CUSSION	ANALYSIS I	MISSED POINTS	ANSWERS TO JURY
0too few, mostly irrelevan	nt	report evaluation	pros & cons prioriti	isation speech	pros & cons	prioritisation	discussion		POINTED OUT	QUESTIONS
relevant, meant to clarify	y unclear points 0_	& understanding		evaluation	pros a cons	prioritisation o	evaluation		1 irrelevant	concise and correct or
1 + suitably allotted to Rep		poor/wrong	irrelevant n		irrelevant	no C	almost r			no questions asked
most time used	1	X	partially relevant sor			some 1	relevant p	1	o o none	some incorrect, inconclusive or too long
+ short, apt and clear, we	ell prioritized,		mostly adequate reaso			reasonable	accurate		relevant,	
time managed efficiently	3	detailed, complex	fully go	od 3 condensed & accurate	fully adequate	good 2	conclusi		constructive	deeply incorrect or show deep misconceptions
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REPORTER Start fro	om 1 and add/subtrac	ct (回从回 海绵的 回报路	SCORESHEET Stage: 2 Fight 1 B, P	roblem:	_	gn Mili	mnasium Freista	Mathelitsch, Leopold
REPORT			head , a' -,	110/40	our -	1143314. / pa	1,94		
phenomenon	theory/model	relevant	comparison between	own contribution	task fulfilment	science communication	DISCUSSION WITH C	reporter's	ANSWERS TO JURY, OPPONENT, and
0 explanation almost no	almost no	experiments too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	arguments/respons	ses conduct at the	REVIEWER'S QUESTIONS
1 some	/some	some	some)	review of sources, cited	partly	partly clear	0too few	poor	concise and correct or
2 fair	(fair)	fair	not well fitting	some own input	average	average	_ some	some aspects fine	
3 good	good	well performed,	deviations	Asome interesting results	some aspects	some parts	many	good	some incorrect,
detailed	quite detailed,	+ results explained	qualitatively analysed	considerable experimental	above average	well.done	+ data/theory	some aspects	inconclusive or too long
demonstrative	correct	errors analysed	+ theory limits explained, conclusive	or theoretical	interesting	overall clear, demonstrative	convincingly suppor	ted efficient	-2 deeply incorrect or show
deep and comprehensible, d		+ reproducible,	well fitting, deviations	considerable experimental	greater extent	+ complex concepts well	3 — proved deep	overall efficient	deep misconceptions
shows physical insight co	mpletely testable	convincing analysis	analysed, conclusive	and theoretical	than expected	communicated	understanding		
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1+0+1+	1+9	'] ± [9] -	0 = 4						
QUESTIONS ASKED	REV	IEW OF REPOR	Т	REVIEW OF OPPOS	SITION	DISCUS	SION ANALYSIS	MISSED POINTS	ANSWERS TO JURY
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relevant, meant to clarify un	clear points 0	& understanding		evaluation	-	03	most no (too few	-1 irrelevant	o concise and correct or
1 + suitably allotted to Rep & 0	Орр,	poor/wrong	irrelevant no	- Poorly mone	irrelevant	too.		A	no questions asked
most time used	1,=		partially relevant son	- too shorty long	partially relevant	1)	short/long some	none none	some incorrect, inconclusive or too long
2 + short, apt and clear, well p	rioritized, 2		mostly adequate reason		mostly adequate	Teasonable	ccurate, fully	1 relevant,	-
time managed efficiently	3	detailed, complex	fully adequate goo	od 3 condensed & accurate	fully adequate	7 manua	onclusive adequate	constructive	deeply incorrect or show deep misconceptions
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REPORT												DISC	USSION WITH OPP	ONENT	ANSW	ERS TO JURY,
	phenomenon explanation	theory/model	relevant experiments	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	on between d experiment	own contrib	oution	task fulfiln	nent scie	ence comm	nunication		relevant arguments/responses	reporter's conduct at the	ОРРО	NENT, and WER'S QUESTIONS
0	almost no	almost no	too few	no/a	lmost no	others' data, inco	rrectly cited	misunderst	tood	unclear, ch	haotic		arguments/responses	discussion	KEVIE	WEN 3 QUESTIONS
1	some	some	some	S	ome X	review of source	es, cited	partly	/	partly cl	lear	0	too few	poor	-	concise and correct or
2	fair	fair	fair	not w	ell fitting	some own i	input	average	e^)	averag	ge	1	some	some aspects fine	07	no questions asked
3 ×	gowd	good	well performed sufficient numb		riations rely analysed	+ some interesti	ng results	some aspe above aver		some pa well do		1	+ data/theory	some aspects	-1	some incorrect,
5	detailed demonstrative	quite detailed, correct	+ results explain errors analysed		ory limits d, conclusive	considerable exp		interesti	-	overall cl		2	convincingly supported	efficient		inconclusive or too long deeply incorrect or show
	and comprehensible,	detailed, complex, completely testable	+ reproducible convincing analy		g, deviations I, conclusive	considerable exp		greater ext		omplex con		3 —	proved deep understanding	overall efficient		deep misconceptions
OPPON 1 +	Start of	rom 1 and add/subtra	ect (4													
QUESTIC	ONS ASKED	OPPOSITION	(SPEECH)					DISC	USSION	WITH REI	PORTER				ANS	WERS TO JURY and
0 × too	few, mostly irrelevant	unders	tanding of rele	vant topics ddressed	own opinion presented	prioritisation	time manageme		releva scientific	int	own opin		opponent's conduct o	f prioritisation	REVI	EWER'S QUESTIONS
4	lear points in the repor	almor	t nothing no	or irrelevant	too few	no	poor	0	almost	no	too fev	V	poor	по	0 ×	concise and correct or no questions asked
The same of the sa	nort, apt and clear, well		nain points	few 💄	some	some	reasonabl	1	few	,	some	/	some aspects fine	some		some incorrect,
64	oritized, all time used	2 mair	n points	some	some correc	t reasonable	fair		×som(e	some cor	rect	good	reasonable	-1	inconclusive or too long
pric	muzeu, un ume useu	all relev	ant points	many	many correc	t fair	efficient		good	d	many cor	rect	some aspects efficient	fair		
NOTES:		4 practical	lly all points pr	actically all	+ improveme suggestions	Very good	+ all time use	ed 4	new cru point		+ improve suggestion		overall efficient	very good	-2	deeply incorrect or show deep misconceptions
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NOTES: No review of approsition, no wind parits, but what they ded was actually grate good.

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REPORTER Start	from 1 and add/subtr	act		SCORESHEET Stage: 2 Fight 1 B, F	Problems	Sig	gn Wellestell	\preceq	Kundracik, Frantisek
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REPORT			hand at an'.			11033101	DISCUSSION WITH O		ANSWERS TO JURY,
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/respon	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
almost no	almost no	too few		others' data, incorrectly cited	misunderstood	unclear, chaotic	0too few	discussion	NEVIEWER'S QUESTIONS
some) 2 fair	fair	some	not well fitting	review of sources, cited some own input	partly	partly clear average	some	some aspects fine	concise and correct or
[3]		well performed,	- deviations		some aspects	someparts	1 (many)	8000	no questions asked
4 good	good	sufficient number	qualitatively analysed	+ some interesting results	above average	well done	+ data/theory	some aspects	some incorrect,
5 detailed demonstrative	quite detailed, correct	+ results explained	+ theory limits	considerable experimental	interesting solution	overall clear,	convincingly suppor		deeply incorrect or show
deep and comprehensible,	detailed, complex,	errors analysed + reproducible,	explained, conclusive well fitting, deviations	or theoretical considerable experimental	greater extent	+ complex concepts well	3 — proved deep understanding	overall efficient	deep misconceptions
shows physical insight	completely testable	convincing analysis	analysed, conclusive	and theoretical	than expected	communicated	understanding	1	
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QUESTIONS ASKED	OPPOSITION	N (SPEECH)			DISCUSSION	ON WITH REPORTER			ANSWERS TO JURY and
too few, mostly irrelevant			nt topics own opinior	ns time		elevant own opin	ions opponent's condu	uct of	REVIEWER'S QUESTIONS
relevant, aimed at resolvi	ng pres	entation add	ressed presented		ent scien	ntific topics present	ed the discussion	prioritisation	concise and correct or
unclear points in the repo	III		rrelevant too few	no peer		most no too fee		no	no questions asked
2 + short, apt and clear, we		5	ome some correc	some reasonab	le 1	few some			some incorrect,
prioritized, all time used		/	any many correct		1	good many cor		rèssonable cient fair	inconclusive or too long
NOTES:	3		ically all + improveme	ent . +	1 3 /	w crucial + improve	/		deeply incorrect or show
	4 practica	ily all politis pract	suggestions	very good all time us	ed 4 p	point(s) suggesti	ons Overall efficien	nt very good	deep misconceptions
					+ 900	d porial in h	re déscussi	<u>`</u>	
REVIEWER Start	from 1 and add/subtra								
1 + 0.5 + 1.5	+ + + (± 0 -	1=3						
QUESTIONS ASKED	RE	VIEW OF REPOR	r	REVIEW OF OPPO	SITION	DISCUSS	SION ANALYSIS	MISSED POINTS	ANSWERS TO JURY
		report evaluation		speech			scussion correct own		QUESTIONS
(F)		& understanding	pros & cons prioritis	sation evaluation	pros & cons		aluation opinions		consists and correct or
relevant, meant to clarify		poor/wrong	irrelevant	0 poor/wrong	irrelevant	no 0 (ali	most no too few	-1 irrelevant	no questions asked
suitably allotted to Rep	& Opp,	partia	artially relevant son	ne 1 too short/long	partially relevant	some too!	short/long some	none	some incorrect,
+ short, apt and clear, we	Il prioritized	good	nostly adequate reason	nable 2 informative, apt	mostly adequate	reasonable 1 - rele	vant parts many	relevant	inconclusive or too long
time managed efficiently		detailed,	fully goo	od 3 condensed &	fully	7	ccurate, fully nclusive adequate	1 relevant,	deeply incorrect or show deep misconceptions
		complex	adequate BOO	3 accurate	adequate				deep misconceptions
NOTES:					up line	10 - 10	camalysis		IYPT – March 2019
					no have	ols.	Q		
					, con pour	2			

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REPORTER Start	from 1 and add/subtra	act.		SCORESHEET	,	Sig	gn		Werbach, Katharina
	Tom Tand addysubtra	5	2000年	Stage: 2 Fight 1B, F	Problem: \				
1 + 4,5 + 2,5	-[0/2]=[5)	回鄉次	Iran:		Russia:	Gyn	nnasium Freista	dt:
REPORT							DISCUSSION WITH O	PPONENT	ANSWERS TO JURY,
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	relevant arguments/response	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
almost no	almost no	too few	no/almost ng	others' data, incorrectly cited	misunderstood	unclear, chaotic	0	discussion	REVIEWER 3 QUESTIONS
some	some	some	some	review of sources, cited	partly	partly clear	too few	poor	concise and correct or
fair	fair	fair well performed,	not well fitting	some own input	average	average	1 some	some aspects fine	no questions asked
good o	good O	sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts well done	many data (the	good	some incorrect,
detailed O	quite detailed,	+ results explained	+ theory limits	considerable experimental	interesting	overall clear,	+ data/theory convincingly support	some aspects efficient	inconclusive or too long
demonstrative deep and comprehensible,	correct detailed, complex,	+ reproducible,	explained, conclusive well fitting, deviations	or theoretical considerable experimental	solution greater extent	+ complex concepts well	3 — proved deep	overall efficient	deeply incorrect or sho deep misconceptions
,		convincing analysis	analysed, conclusive	and theoretical	than expected	communicated	understanding	overall efficient	deep misconceptions
OPPONENT Start 1 + 0 + 2	+ Q - OPPOSITION)=5		`	_	ON WITH REPORTER	- dem		ANSWERS TO JURY and
too few, mostly irrelevant			nt topics own opinior	ns time		elevant own opin	ions opponent's conduc	t of	REVIEWER'S QUESTION
relevant, aimed at resolving	press		ressed presented	prioritisation	TO LATER THE PARTY OF THE PARTY	tific topics present		prioritisation	concise and correct or
1 unclear points in the repo	rt 0 almos		rrelevant too few	no poor	0 alı	most no too fee	w poor	no	no questions asked
2 - + short, apt and clear, wel			ome ome correct	some reasonab	- A	few some		_	some incorrect,
prioritized, all time used	4		nany some correct		014	some some cor good many cor			inconclusive or too long
NOTES:	3		+ improveme	ent very good +	3 nev	w crucial + improve		very good	 deeply incorrect or sho deep misconceptions
		,	suggestions	all time us	ed 4 p	ooint(s) suggesti	ons Overall efficient	very good	deep misconceptions
REVIEWER Start 1 + 05 +	from 1 and add/subtra	ect ±	0=4						
QUESTIONS ASKED	RE	VIEW OF REPOR	Т	REVIEW OF OPPO	SITION	DISCUS	SION ANALYSIS	MISSED POINTS	ANSWERS TO JURY
too few, mostly irrelevant		report evaluation & understanding	pros & cons prioritis	sation speech	pros & cons	nviovitiention	scussion correct own aluation opinions	POINTED OUT	QUESTIONS
relevant, meant to clarify	unclear points 0_	poor/wrong	irrelevant no	evaluation		0	most no too few	1 irrelevant	o concise and correct or no questions asked
+ suitably allotted to Rep	& Opp,		partially relevant son	poor/ mong	irrelevant partially relevant	110	short/long some A	none	some incorrect,
most time used			mostly adequate reason	· · · · · · · · · · · · · · · · ·	mostly adequate	301116	vant parts many		inconclusive or too long
2+ short, apt and clear, wel time managed efficiently	I prioritized,	detailed,	fully	condensed &	fully	ac	ccurate, fully	relevant,	deeply incorrect or sho
time managed emidently	3	complex	adequate	accurate	adequate	good 2 co	nclusive adequate	constructive	-2 — deep misconceptions
NOTES:									IYPT – March 20
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REPOR	TER Start	from 1 and add/sul	otract	場が影	SCORESHEET	5		sign /	MA		Widmann, Eberhard
1 +		-	7	海	Stage: 3 Fight 1B, I	Problem: /		0		Por-	
<u> </u>	7.67	0	(1)	回兜款	Russia: Pep		Gymnasium Fr	eistadt: 🕡	P Iran:	FCV-	
REPORT					4			DISCUSSIO	ON WITH OP	PONENT	ANSWERS TO JURY,
	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experimen	own contribution	task fulfilment	science communicat	PART OF THE PARTY	relevant ents/responses	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
0	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	0		discussion	NEVIEWER'S QUESTIONS
1	some	some	some	some	review of sources, cited	partly	partly clear		too few	poor	concise and correct or
2	fair	fair	fair	not well fitting	some own input	average	average		some	some aspects fine	no questions asked
4 4	good	≨ good	well performed, sufficient number		b + some interesting results	some aspects above average	some parts well done	2 +	many data/theory	good some aspects	some incorrect,
5	detailed	quite detailed,	+ results explaine		considerable experimental	interesting	overall clear,	convin	cingly supported	d efficient	
7		detailed, comple		explained, conclusive well fitting, deviations		solution greater extent	+ complex concepts v	/eli = -	roved deep derstanding	overall efficient	deeply incorrect or show deep misconceptions
NOTES:		completely testal	ole convincing analysi	s analysed, conclusive	and theoretical	than expected	communicated			1	
1 +	0+2	from 1 and add/su	0=5			1					
QUESTI	ONS ASKED	OPPOSITI	ON (SPEECH)			DISCUSSI	ON WITH REPORT	ER			ANSWERS TO JURY and
O too	o few, mostly irrelevant	und	erstanding of relev	rant topics own opinio	prioritisation	r	elevant own o	pinions oppo	nent's conduct	of prioritisation	REVIEWER'S QUESTIONS
1 1	levant, aimed at resolving clear points in the repo	n aln	nost nothing no or	irrelevant too few	no poor			few	poor	no /	concise and correct or no questions asked
		1 som	e main points	few some	some reasonab	le 1	few so	me soi	me aspects fine	some	4 —
the constant	short, apt and clear, wel	2 m	nain points	some some corre	ect reasonable , fair	,	some & some	correct	good	reasonable	some incorrect, inconclusive or too long
pri	ioritized, all time used	an all re	elevant points	many many corre	ect fair efficien	1 2 1	good many	correct some	e aspects efficier	nt fair	The same of the sa
NOTES:		4 practi	ically all points prac	tically all + improvem suggestion	very good	A		estions o	verall efficient	very good	deeply incorrect or show deep misconceptions
REVIEV	WER Start	from 1 and add/sul	otract								
1+	+(1,5)+2	+[(.5]+) ± (O)	-0-1							
QUESTI	ONS ASKED		REVIEW OF REPO	RT	REVIEW OF OPPO	SITION	DISC	JSSION ANALY	'SIS N	ISSED POINTS	ANSWERS TO JURY
0too					speech			discussion co	rrect own p	OINITED OUT	OUECTIONS
n roc	o few, mostly irrelevant		report evaluation	pros & cons priorit	isation speech	nros & cons	prioritisation			OINTED OUT	QUESTIONS
			& understanding		isation evaluation	pros & cons	prioritisation	evaluation	opinions		concise and correct or
rel	levant, meant to clarify	unclear points	& understanding		Isation	pros & cons irrelevant	no 0	evaluation almost no	too few	irrelevant	-
rel-	levant, meant to clarify suitably allotted to Rep	unclear points	& understanding	irrelevant r	evaluation o poor/wrong		no 0	evaluation almost no o short/long	opinions		concise and correct or
1 rel	levant, meant to clarify	unclear points 0	& understanding poor/wrong partial	irrelevant r	evaluation o poor/wrong me 1 too short/long	irrelevant	no 0 1	evaluation almost no	too few	irrelevant	concise and correct or no questions asked

condensed &

accurate

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adequate

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conclusive

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time managed efficiently

NOTES: good questous

detailed,

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IYPT - March 2019

deeply incorrect or show

deep misconceptions

constructive

REPORTER Start 1 + 5 + 1	from 1 and add/subtra	act		SCORESHEET Stage: 3 Fight 1 B, F Russia:		Si Gymnasium Frei	ign / Stole Kolenhod Ira	Colon Nean	Mathelitsch, Leopold
REPORT			Seed Process	14351a. (2 (sQ	ie a	- Cynniasiani i i c			
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication		reporter's	ANSWERS TO JURY, OPPONENT, and
0 almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	arguments/respon	discussion	REVIEWER'S QUESTIONS
some	some	some	some	review of sources, cited	partly	partly clear	too few	poor	concise and correct or
2 fair	fair	fair	not well fitting	some own input	average	average	some	some aspects fine	no questions asked
good	goød	well performed,	deviations	+ some interesting results	some aspects	some parts	many	good	some incorrect,
detailed demonstrative	quite detailed,	+ results explained errors enalysed	+ theory limits explained, conclusive	considerable experimental	above average interesting solution	well done overall clear, demonstrative	+ data/theory convincingly suppor	some aspects ted efficient	inconclusive or too long deeply incorrect or show
deep and comprehensible,		+ reproducible,	well fitting, deviations	considerable experimental	greater extent	+ complex concepts we	3 — proved deep	overall efficient	deep misconceptions
	completely testable			and theoretical	than expected	communicated	understanding	overall circuit	
1 + S + 2 OUESTIONS ASKED too few, mostly irrelevant relevant, aimed at resolve undear points in the report short, apt and clear, we prioritized, all time used NOTES:	OPPOSITION t unders prese 0 almos rt some n 2 all relev	(SPEECH) tanding of releva and thothing no or in the points of the point	nnt topics ressed presented too few some correct many correct suggestions.	prioritisation management no poor reasonable fair efficient very good +	rent scien o ali le 1 2 t 3 need 4 p	ON WITH REPORTER elevant own opi tific topics preser most no too fe few some some good many co werdcial + Improv soint(s) suggest	nions opponent's conducted the discussion ew poor some aspects fit good orrect some aspects efficient tions	no ne some reasonable ident fajir	ANSWERS TO JURY and REVIEWER'S QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions
REVIEWER Start 1 + 2 + 1	from 1 and add/subtra	± 0 -	0=6						
QUESTIONS ASKED	RE	VIEW OF REPORT	Т	REVIEW OF OPPO	SITION	DISCUS	SSION ANALYSIS	MISSED POINTS	ANSWERS TO JURY
0too few, mostly irrelevan	t	report evaluation	pros & cons prioriti	sation speech	nros & cons	mula visionation		POINTED OUT	QUESTIONS
relevant, meant to clarify	unclear points o	& understanding		evaluation	pros & cons		valuation opinions	-1 irrelevant	concise and correct or
1 + suitably allotted to Rep		poor/wrong	irrelevant no	poor/wrong	irrelevant	(110)	most no too few	- Interevant	no questions asked
most time used	1)	partial p	partially relevant son	ne 1 too short/long	partially relevant	SOITIE 4	short/long some	02 none	some incorrect,
+ short, apt and clear, we	Il prioritized 2	good r	mostly adequate reason	nable 2 informative, apt	mostly adequate	Tedsoriable	evant parts many	1 relevant,	- inconclusive or too long
time managed efficiently		detailed, complex	fully goo	od 3 condensed & accurate	fully adequate	The contract of	accurate, fully onclusive adequate	constructive	-2 — deeply incorrect or show deep misconceptions
NOTES:									IYPT – March 2019

Kundracik, Frantisek SCORESHEET REPORTER Start from 1 and add/subtract Stage: 3 Fight 1B, Problem: **Gymnasium Freistadt:** Russia: Iran: REPORT DISCUSSION WITH OPPONENT ANSWERS TO JURY relevant comparison between reporter's OPPONENT, and phenomenon theory/model own contribution task fulfilment science communication relevant explanation experiments theory and experiment conduct at the arguments/responses **REVIEWER'S QUESTIONS** discussion almost no almost no too few no/ almost no others' data, incorrectly cited misunderstood unclear, chaotic too few partly clear poor some review of sources, cited partly concise and correct or fair fair not well fitting some own input some some aspects fine average average no questions asked well performed. many good deviations some aspects some parts good good + some interesting results some incorrect. sufficient number qualitatively analysed well done above average some aspects + data/theory inconclusive or too long detailed quite detailed. + results explained + theory limits considerable experimental interesting overall clear, efficient convincingly supported demonstrative correct errors analysed explained, conclusive solution demonstrative deeply incorrect or show or theoretical proved deep deep and comprehensible, detailed, complex. + reproducible. well fitting, deviations considerable experimental greater extent + complex concepts well overall efficient deep misconceptions understanding shows physical insight completely testable convincing analysis analysed, conclusive and theoretical communicated than expected - not used livere in presentation , way Drings remandel inclear OPPONENT Start from 1 and add/subtract 23 **OPPOSITION (SPEECH)** ANSWERS TO JURY and QUESTIONS ASKED DISCUSSION WITH REPORTER too few, mostly irrelevant understanding of relevant topics own opinions time relevant own opinions opponent's conduct of REVIEWER'S QUESTIONS prioritisation prioritisation presentation addressed presented scientific topics the discussion management presented relevant, aimed at resolving concise and correct or almost nothing no or irrelevant too few no poor almost no too few no no questions asked unclear points in the report some some main points few some some aspects fine reasonable few some + short, apt and clear, well some incorrect. reasonable fair main points some correct some 200d some some correct reasonable inconclusive or too long prioritized, all time used all relevant points many many correct fair efficient some aspects efficient fair good many correct deeply incorrect or show NOTES: + improvement new crucial + improvement practically all points practically all very good overall efficient very good deep misconceptions suggestions all time used point(s) suggestions REVIEWER 2 - Sart from Land add/subtract 0 **QUESTIONS ASKED** REVIEW OF REPORT **REVIEW OF OPPOSITION DISCUSSION ANALYSIS** MISSED POINTS **ANSWERS TO JURY** report evaluation discussion correct own POINTED OUT QUESTIONS speech too few, mostly irrelevant pros & cons prioritisation pros & cons prioritisation evaluation opinions & understanding evaluation concise and correct or relevant, meant to clarify unclear points irrelevant almost no too few poor/wrong irrelevant no irrelevant no questions asked poor/wrong no + suitably allotted to Rep & Opp, too short/long some partial partially celevant some partially relevant some too short/long none some incorrect, most time used relevant parts many mostly adequate reasonable informative, apt mostly adequate inconclusive or too long goog reasonable short, apt and clear, well prioritized, relevant, accurate, fully deeply incorrect or show detailed, condensed & fully* time managed efficiently constructive good good conclusive adequate complex adequate accurate adequate deep misconceptions

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ter's	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS	-
or ects fine	concise and correct or no questions asked	

SCORESHEET

Stage: 3 Fight 1 B, Problem: 5

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

OPPONENT Start from 1 and add/subtract 0,5 QUESTIONS ASKED OPPOSITION (SPEECH) **DISCUSSION WITH REPORTER** ANSWERS TO JURY and too few, mostly irrelevant understanding of relevant topics own opinions relevant own opinions opponent's conduct of time **REVIEWER'S QUESTIONS** prioritisation prioritisation presentation addressed presented management scientific topics presented the discussion 0 + concise and correct or relevant, aimed at resolving almost nothing no or irrelevant too few no poor almost no too few poor no unclear points in the report no questions asked some main points few some X some reasonable few some some aspects fine some 2 - + short, apt and clear, well some incorrect, main points some X some correct reasonable fair some some correct. good reasonable prioritized, all time used inconclusive or too long all relevant points fair good X some aspects efficient fair many many correct efficient many correct \ deeply incorrect or show NOTES: + improvement new crucial + improvement practically all points practically all very good overall efficient very good deep misconceptions suggestions all time used suggestions point(s)

Too quiet (En laire)

REVIEWER	Start from 1 and add/subtract	
1 + 1	+ (1,75+ O15+ 1 ± 0 - 0 = 5	

Start from 1 and add/subtract

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

REPORTER

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REPORTER Start from 1 + 3,00 + -	om 1 and add/subtra	ct		SCORESHEET Stage: 3 Fight 1 B, F Russia:	Problem: \$	_się	gn//Cellell	Werbach, Katharina
REPORT phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OPPONENT	the REVIEWER'S QUESTIONS
NOTES: /	ompletely testable	too few some fair well performed, sufficient number + results explained errors analysed + reproducible, convincing analysis	no/ almost no some not well fitting deviations qualitatively analysed + theory limits explained, conclusive well fitting, deviations analysed, conclusive	others' data, incorrectly cited review of sources, cited some own input + some interesting results considerable experimental or theoretical considerable experimental and theoretical	partly average some aspects above average interesting solution greater extent than expected	some parts well done overall clear, demonstrative + complex concepts well communicated	too few poor some some aspects many good too few poor some aspects good too few poor some aspects good occurrence and too few poor good occurrence and good occurrence and good occurrence occurrence and good occurrence occurrence overall efficient	fine concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions
OPPONENT Start fr	om 1 and add/subtra			Time to ex	aplain	De means	re work more con	aparty with
too few, mostly irrelevant relevant, aimed at resolving unclear points in the report + short, apt and clear, well prioritized, all time used	prese almos some m main all relev	tanding of addition in the control of the control o	nt topics own opinion presented relevant too few some (orne any many correctally all own opinion presented too few some correctally all own opinion presented too few some correctally all own opinion presented to few some correctally all own opinion presented too few some correctally all own opinion presented to few some correctally all opinion presented to few some corr	no poor reasonable fair efficient very good +	rent scient 0 alr	DN WITH REPORTER elevant own opin tific topics present most no too fe- few some some cor good many cor w crucial + improve oint(s) suggesti	prioritisate ted the discussion prioritisate w poor no some aspects fine some rect good reasonab rrect some aspects efficient fair ement overall efficient very goo	concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show
REVIEWER Start from	om 1 and add/subtra	ct	0=5			no 08	A	
QUESTIONS ASKED 1 — too few, mostly irrelevant — relevant, meant to clarify ur + suitably allotted to Rep & most time used + short, apt and clear, well prime managed efficiently NOTES:	Opp, 1 2 2 2 3	good n detailed, complex	pros & cons prioritic irrelevant no artially relevant son nostly adequate reasor fully adequate good	evaluation poor/wrong too short/long informative, apt condensed &		no all control reasonable	SION ANALYSIS secussion correct own opinions lmost no too few short/long some open open open open open open open ope	QUESTIONS 0 concise and correct or no questions asked some incorrect, inconclusive or too long

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