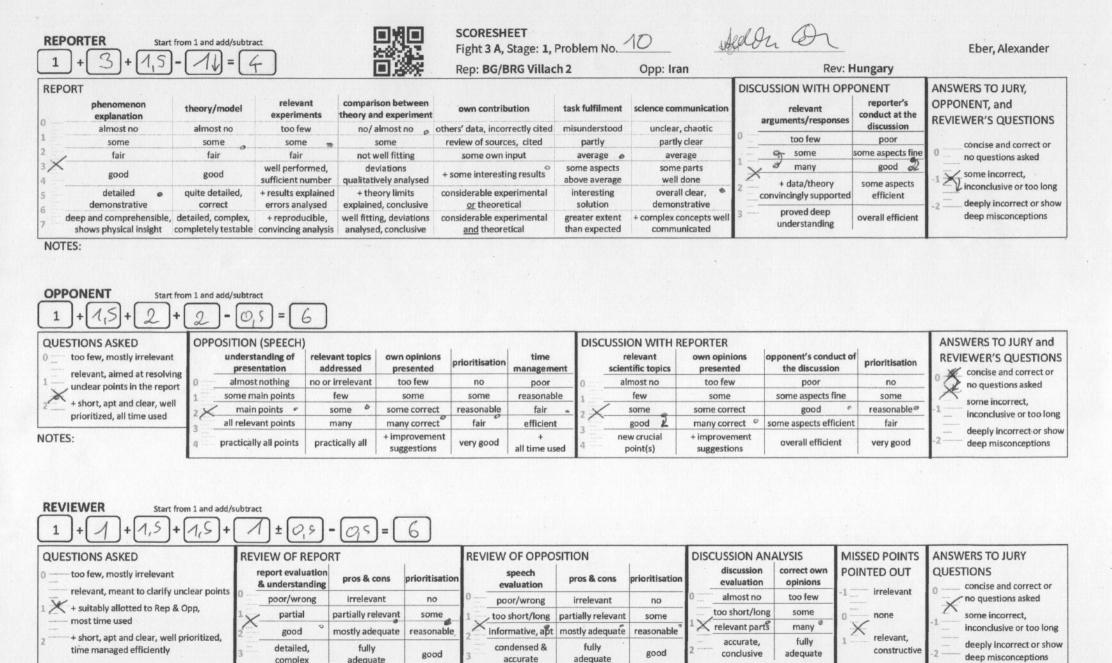
Personance of theory/model experiments of theory/model experiments of theory and experiments of the provided of theory and experiments of the provided of the provided of theory and experiments of the provided o	REPORTER Start f	rom 1 and add/subt	ract		SCORESHEET Fight 3 A, Stage: 1 Rep: BG/BRG Villa		Opp: Iran	sign/Ull	Rev: Hu	ungary	Werbach, Katharina
$\boxed{1 + (1/5) + (2/5) - (2/5) - (2/5)}$	phenomenon explanation almost no some fair good detailed demonstrative deep and comprehensible, shows physical insight NOTES:	almost no some fair good quite detailed, correct detailed, complex completely testable	experiments too few some fair well performed, sufficient number + results explained errors analysed + reproducible, convincing analysis	theory and experiment 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	d misunderstood partly (average some aspects above average interesting solution greater extent	unclear, chaotic partly clear average some parts well done overall clear, demonstrative + complex concepts w	on release arguments toc so the provincing of	evant s/responses few me so any s/theory ly supported d deep	reporter's conduct at the discussion poor ome aspects fine good some aspects efficient	OPPONENT, and REVIEWER'S QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show
QUESTIONS ASKED 1 too few, mostly irrelevant relevant, aimed at resolving undear points in the report some main points few some some orrect prioritized, all time used 1 practically all points practically all points practically all suggestions 1 Practically all points practically all practically al	QUESTIONS ASKED o too few, mostly irrelevant relevant, aimed at resolvin undear points in the report short, apt and clear, well prioritized, all time used NOTES:	OPPOSITIO under pre- 0 almo 1 some 2 ma 3 all rel 4 practice	N (SPEECH) standing of sentation add ost nothing no or in main points sevent points nothing ally all points pract	ressed presented rrelevant too few ew some ome V some correc any many correc rically all suggestions	no pool some reasona t () reasonable () fair efficient very good +	ment scient o al able 1 2 nnt 3 ne	elevant own o presimost no too few some some good many w crucial + impro	pinions opponent the diffew me some as overment overall	poor poor aspects fine good pects efficient	no some reasonable fair	REVIEWER'S QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show
QUESTIONS ASKED Too few, mostly irrelevant Televant, meant to clarify unclear points Televant, mostly adequate reasonable Televant parts many Televant, meant to correct own evaluation Televant parts many Televant, meant to clarify unclear points Televant, mostly adequate reasonable Televant parts many Televant, meant to clarify unclear points Televant, mostly adequate reasonable Televant parts many Televant, meant to clarify unclear points Televant, mostly adequate reasonable Televant parts many Televant, meant to clarify unclear points Televant, mostly adequate reasonable Televant parts many Televant, meant to clarify unclear points Televant, mostly adequate reasonable Televant parts many Televant parts many Televant, meant to clarify unclear points Televant parts many Televant parts many Televant parts	QUESTIONS ASKED too few, mostly irrelevant relevant, meant to clarify the suitably allotted to Rep 8 most time used + short, apt and clear, well	R anclear points 0	EVIEW OF REPOR report evaluation & understanding poor/wrong partial y good detailed,	pros & cons priorities irrelevant no partially relevant som mostly adequate reason	speech evaluation poor/wrong the V 1 too short/long able condensed &	pros & cons irrelevant partially relevant to mostly adequate fully	no o treasonable	discussion correct opin almost no too short/long so elevant parts accurate, fit	town politions few me }	NTED OUT irrelevant none relevant,	QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show



accurate

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complex

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adequate

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

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sign llone SCORESHEET Fight 3 A, Stage: 1, Problem No. 10 REPORTER Korner, Marianne Start from 1 and add/subtract Rep: BG/BRG Villach 2 Opp: Iran Rev: Hungary ANSWERS TO JURY, **DISCUSSION WITH OPPONENT** REPORT OPPONENT, and reporter's comparison between relevant phenomenon task fulfilment science communication relevant own contribution theory/model conduct at the theory and experiment experiments **REVIEWER'S QUESTIONS** arguments/responses explanation discussion misunderstood unclear, chaotic メ no/ almost no others' data, incorrectly cited too few almost no almost no too few poor *concise and correct or review of sources, cited partly partly clear some some some some aspects fine some no questions asked **≠** average some own input × average > fair > fair not well fitting **≭** fair good many some parts some aspects well performed, deviations some incorrect, + some interesting results good good well done qualitatively analysed above average sufficient number + data/theory some aspects inconclusive or too long interesting overall clear, efficient considerable experimental + results explained + theory limits convincingly supported quite detailed, detailed deeply incorrect or show solution demonstrative explained, conclusive or theoretical demonstrative correct errors analysed proved deep deep misconceptions overall efficient well fitting, deviations considerable experimental greater extent + complex concepts well deep and comprehensible, detailed, complex, + reproducible, understanding communicated and theoretical than expected analysed, conclusive shows physical insight completely testable convincing analysis NOTES:

OPPONENT Start from	2	add/subtract	5									
QUESTIONS ASKED	OPP	OSITION (SPEECH)					DISC	CUSSION WITH F	REPORTER			ANSWERS TO JURY and
0too few, mostly irrelevant	0,,,	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management		relevant scientific topics	own opinions presented	opponent's conduct of the discussion	prioritisation	REVIEWER'S QUESTION
relevant, aimed at resolving	0	almost nothing	no or irrelevant	too few	no	poor	0 :::	almost no	too few	poor	no	no questions asked
unclear points in the report	1	some main points	few	★ some	some	reasonable	1	few	× some	★some aspects fine	some	some incorrect,
2 - + short, apt and clear, well	*	main points	some		*reasonable	fair	1	⊀ some	some correct	good	≺reasonable	inconclusive or too lon
prioritized, all time used	2	x all relevant points	★ many	many correct	fair	efficient	14	good	many correct	some aspects efficient	fair	
NOTES:	4	practically all points	practically all	+ improvement suggestions	very good	+ all time used	4	new crucial point(s)	+ improvement suggestions	overall efficient	very good	deeply incorrect or sho deep misconceptions

REVIEWER Start from 1 and add/s 1 + 1,5 + 2,5 + 7,5 +	ubtract 1 ± 0tS -	0. = 8								
QUESTIONS ASKED	REVIEW OF REPORT		R	EVIEW OF OPPO	SITION		DISCUSSION AN	ALYSIS	MISSED POINTS	ANSWERS TO JURY
0 — too few, mostly irrelevant	& understanding	os & cons prioritisat	on	speech evaluation	pros & cons	prioritisation	discussion evaluation	correct own opinions	POINTED OUT	QUESTIONS o concise and correct or
relevant, meant to clarify unclear points	o poor/wrong irr	relevant no	0	poor/wrong	irrelevant	no	0 almost no	too few	×	no questions asked
+ suitably allotted to Rep & Opp,	1 partial partia	ally relevant some	1	too short/long	partially relevant	some	too short/long	-	0 none	some incorrect,
most time used	2 ★ good mostl	ly adequate reasonab	e ,	⊀nformative, apt	mostly adequate	≼ easonable	* relevant parts	-	relevant,	inconclusive or too long
+ short, apt and clear, well prioritized, time managed efficiently	I X	fully good dequate	3	condensed & accurate	★ fully adequate	good	accurate, conclusive	fully adequate	constructive	deeply incorrect or show deep misconceptions

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REPORTER Start fro	m 1 and add/subtrac	± 1		SCORESHEET Fight 3 A, Stage: 1, Rep: BG/BRG Villac	,	Opp: Iran	n fern	Hungary C	Lasserus, Max
REPORT phenomenon explanation almost no	theory/model almost no	relevant experiments too few	comparison between theory and experiment no/almost no	own contribution others' data, incorrectly cited	task fulfilment	science communication unclear, chaotic	DISCUSSION WITH OI relevant arguments/response	reporter's conduct at the discussion	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
some	some •	some	some	review of sources, cited	partly	partly clear	too few	poor	concise and correct or
fair •	fair	fair e	not well fitting	some own input	average	average @	some many o	some aspects fine	no questions asked
good detailed	good quite detailed,	well performed, sufficient number + results explained	deviations qualitatively analysed + theory limits	+ some interesting results considerable experimental	above average interesting	some parts well done overall clear,	+ data/theory	good some aspects ed efficient #	some incorrect, inconclusive or too long
demonstrative deep and comprehensible, de	correct etailed, complex,	errors analysed + reproducible, convincing analysis	explained, conclusive well fitting, deviations analysed, conclusive	or theoretical considerable experimental and theoretical	solution greater extent than expected	demonstrative + complex concepts well communicated	convincingly supported growed deep understanding	overall efficient	deeply incorrect or show deep misconceptions
	m 1 and add/subtrac		CR 3400 C	a se some	tle ary	ef Some	son; on	d nore	ne produci Se E:
QUESTIONS ASKED 1 too few, mostly irrelevant relevant, aimed at resolving unclear points in the report + short, apt and clear, well prioritized, all time used NOTES:	preser almost some ma main all releva	anding of relevant adding nothing no or in ain points for points so and points and points and points and points practi	relevant too few some some correct many correct suggestions	no poor reasonable fair taik d efficient very good all time us	ent scient o ali	ON WITH REPORTER elevant own opini presente most no too fev few some some some or good many corr w crucial + improver soint(s) suggestio	the discussion poor some aspects fine rect o good rect some aspects efficient overall efficient	no some reasonable	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 from	m 1 and add/subtrac	± 1944 -	=8						
QUESTIONS ASKED O too few, mostly irrelevant relevant, meant to clarify une suitably allotted to Rep & C most time used + short, apt and clear, well putime managed efficiently	clear points 0		pros & cons prioritis irrelevant no artially relevant som nostly adequate fully adequate goo	poor/wrong too short/long informative, apt condensed &		no 0 alr some > reasonable 1 relevance		MISSED POINTS POINTED OUT irrelevant none relevant, constructive	ANSWERS TO JURY QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions
NOTES: Very 3	ood p	reseleli.	en; Next t	ine please in	clude	more place	orne.		MPT – March 2019

REPORTER Start 1 + 3,5 + 0,75	from 1 and add/subtra	act 4	回於回 (20.66) (10.64)	SCORESHEET Fight 3 A, Stage: 1, Rep: BG/BRG Villac	Problem No	Opp: Iran	Donel S	Hungary	Steiner, Daniel
REPORT phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OP relevant arguments/responses	reporter's conduct at the	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
almost no some fair good detailed demonstrative deep and comprehensible,	almost no some fair good quite detailed, correct detailed, complex,	too few some fair well performed, sufficient number + results explained errors analysed + reproducible,	no/ almost no	others' data, incorrectly cited review of sources, cited some own input + some interesting results considerable experimental or theoretical considerable experimental	partly average some aspects above average interesting solution greater extent	unclear, chaotic partly clear average some parts well done overall clear, demonstrative + complex concepts well	0 too few x some 1 many 2 + data/theory convincingly supporte 3 proved deep understanding	poor some aspects fine good some aspects	concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions
NOTES: Egerum or expe OPPONENT Start	1 1 1	show stabi	0) 00	maker speed, mover speed, mover speed, moverson theor wordy not mean	y co ob	communicated che ? soviation +	") error ") merce	erhimotic quantite rderstandi	in qualitatively havely missing x ip of longue x
QUESTIONS ASKED too few, mostly irrelevant relevant, aimed at resolvi unclear points in the repo + short, apt and clear, wel prioritized, all time used	ng press o almos 1 some n 2 mair 3 xall relevan	tanding of entation add add trothing no or in all points for points so want points × m	own opinion presented too few some some correct any many correct suggestions	no poor reasonable fair efficien	ent scier 0 al ole 1 2 t 3	ON WITH REPORTER elevant own opin present most no too fev some some cor good many cor w crucial point(s) suggestive	the discussion poor some aspects fine rect good rect some aspects efficient overall efficient	no some reasonable	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 + 0,5 + 2	from 1 and add/subtra	hy of floatet	0,25 = 7	.) 1	ylevis m Nablishe Insursion	is feather -	Sudent situa	hion x,	gets belle during
QUESTIONS ASKED too few, mostly irrelevant relevant, meant to clarify suitably allotted to Rep most time used short, apt and clear, we time managed efficiently	t unclear points 0	good redetailed, complex	pros & cons prioriti irrelevant no partially relevant son nostly adequate reason fully adequate good	poor/wrong ne too short/long nable informative, apt condensed & accurate	pros & cons irrelevant partially relevant mostly adequate fully adequate	prioritisation no some reasonable die ev too al too xrele		MISSED POINTS POINTED OUT irrelevant none kelevant, constructive	ANSWERS TO JURY QUESTIONS o concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions

sign (Mhd. 9 SCORESHEET REPORTER Start from 1 and add/subtract Fight 3 A. Stage: 2, Problem No. Werbach, Katharina Opp: Hungary Rev: Wien Rep: Iran ANSWERS TO JURY, **DISCUSSION WITH OPPONENT** REPORT reporter's OPPONENT, and relevant comparison between phenomenon relevant task fulfilment science communication theory/model own contribution conduct at the experiments theory and experiment explanation **REVIEWER'S QUESTIONS** arguments/responses discussion misunderstood unclear, chaotic no/almost no others' data, incorrectly cited almost no almost no too few too few poor partly clear review of sources, cited partly concise and correct or some some some some some aspects fine some average no questions asked not well fitting some own input average fair fair fair many good some aspects some parts well performed, deviations some incorrect, + some interesting results good good above average well done Aome aspects sufficient number qualitatively analysed + data/theory inconclusive or too long overall clear, interesting detailed quite detailed. + results explained + theory limits considerable experimental convincingly supported efficient deeply incorrect or show explained, conclusive or theoretical solution demonstrative errors analysed demonstrative correct proved deep overall efficient deep misconceptions greater extent + complex concepts well considerable experimental deep and comprehensible, detailed, complex, + reproducible. well fitting, deviations understanding communicated and theoretical than expected shows physical insight completely testable convincing analysis analysed, conclusive explain pomilies devolus me NOTES: **OPPONENT** Start from 1 and add/subtract ANSWERS TO JURY and **DISCUSSION WITH REPORTER** QUESTIONS ASKED OPPOSITION (SPEECH) opponent's conduct of **REVIEWER'S QUESTIONS** own opinions own opinions time relevant understanding of relevant topics too few, mostly irrelevant prioritisation prioritisation the discussion scientific topics presented presentation addressed presented management concise and correct or relevant, aimed at resolving too few poor по too few O almost no no questions asked no or irrelevant almost nothing no poor undear points in the report some some aspects fine some reasonable few some main points some some few some incorrect. + short, apt and clear, well reasonable some correct good reasonable fair some main points some some correct inconclusive or too long prioritized, all time used some aspects efficient fair good many correct all relevant points many many correct fair efficient deeply incorrect or show new crucial + improvement + improvement NOTES: overall efficient very good deep misconceptions practically all points practically all very good suggestions all time used point(s) suggestions -) priorilize REVIEWER Start from 1 and add/subtract **DISCUSSION ANALYSIS** MISSED POINTS **ANSWERS TO JURY REVIEW OF OPPOSITION** REVIEW OF REPORT QUESTIONS ASKED discussion correct own **POINTED OUT** QUESTIONS report evaluation speech too few, mostly irrelevant pros & cons prioritisation pros & cons prioritisation evaluation opinions concise and correct or evaluation & understanding irrelevant relevant, meant to clarify unclear points almost no too few no questions asked irrelevant no irrelevant poor/wrong poor/wrong no + suitably allotted to Rep & Opp, too short/long, some some incorrect, none partial partially relevant some too short/long partially relevant some most time used inconclusive or too long relevant parts many reasonable mostly adequate reasonable informative, apt | mostly adequate good relevant, + short, apt and clear, well prioritized, fully accurate. deeply incorrect or show condensed & fully detailed, fully constructive

good

adequate

complex

accurate

time managed efficiently

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deep misconceptions

adequate

conclusive

good

adequate

REPORTER Start from 1 and add/subtract



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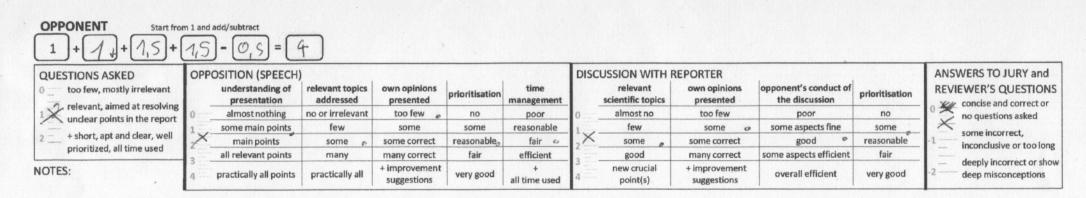
Fight 3 A, Stage: 2, Problem No. Rep: Iran Opp: Hungary

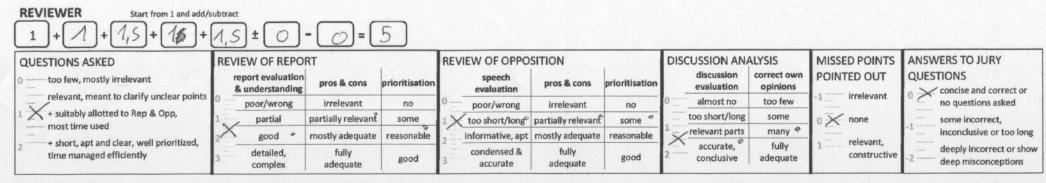
Rev: Wien

Eber, Alexander

REPORT	Г							DISCL	ISSION WITH OPP	ONENT	ANSWERS TO JURY,
	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	a	relevant rguments/responses	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
U	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic		.84	discussion	HEVIEWEN'S GOESTIONS
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		some	some aspects fine	
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	some parts of well done	-	many + data/theory	good some aspects	some incorrect,
×	detailed demonstrative	quite detailed, o	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimentale or theoretical	interesting & solution	overall clear, demonstrative	Xcc	onvincingly supported	efficient	inconclusive or too long deeply incorrect or show
The second of the second	ep and comprehensible,	detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	3	proved deep understanding	overall efficient	deep misconceptions

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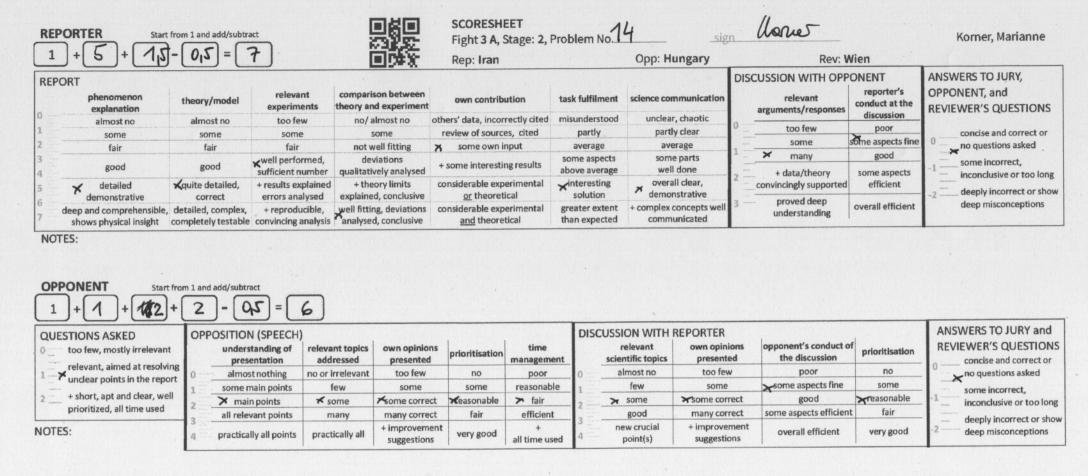




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REPORTER Start fr	rom 1 and add/subt	ract		SCORESHEET Fight 3 A, Stage: 2,	Problem No.	14		Ayeng 1		Irgang, Klaus
REPORT				Rep: Iran		Opp: Hu		DISCUSSION WITH C		ANSWERS TO JURY,
phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science com	munication	relevant arguments/respons	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
almost no	almost no	too few		others' data, incorrectly cited		unclear,	edition () electric transcription ()	0 too few	discussion	
şome	some	some	some	review of sources, cited some own input	partly	partly		some	some aspects fine	concise and correct or
fair good	fair good	fair well performed, sufficient number	not well fitting deviations qualitatively analysed	+ some interesting results	some aspects above average	o some well o	parts	1 many	good	some incorrect,
5 detailed	quite detailed,	results explained	+ theory limits	considerable experimental	interesting	overall	clear,	+ data/theory convincingly suppor	some aspects ted efficient	inconclusive or too long deeply incorrect or show
deep and comprehensible, to shows physical insight		+ reproducible, convincing analysis	explained, conclusive well fitting, deviations analysed, conclusive	or theoretical considerable experimental and theoretical	solution greater extent than expected	+ complex co	ncepts well	3 proved deep understanding	overall efficient	deep misconceptions
QUESTIONS ASKED O _ too few, mostly irrelevant	nre	O = 6 N (SPEECH) releva	nt topics own opinion	prioritisation		ION WITH R	EPORTER own opinio		prioritisation	ANSWERS TO JURY and REVIEWER'S QUESTIONS
relevant, aimed at resolving	almo		rrelevant too few	no poor		lmost no	too few	poor	no	concise and correct or no questions asked
unclear points in the report			ew O some	some Deasonal	ble 1	few	O some	some aspects fir	ne some	some incorrect,
+ short, apt and clear, well prioritized, all time used	2 ma	in points so	ome some corre	ct reasonable fair		some	some corre	ect good	reasonable	inconclusive or too long
	3 all rele	evant points 0 m	any many corre		3 .	good	many corre			deeply incorrect or show
NOTES: time ~	4 practic	ally all points pract	+ improvement suggestion			point(s)	+ improvem suggestion	1 / overall emicien	t very good	deep misconceptions
REVIEWER Start fr	rom 1 and add/subt	ract ± ① -		much not	rele voin	t porro	inefer	n, 226	r⊕	
QUESTIONS ASKED	R	EVIEW OF REPORT	Г	REVIEW OF OPPO	OSITION		DISCUSSI	ON ANALYSIS	MISSED POINTS	ANSWERS TO JURY
0 — too few, mostly irrelevant		report evaluation	pros & cons prioriti	sation speech	pros & cons	prioritisation		ussion correct own	POINTED OUT	QUESTIONS
relevant, meant to clarify u	nclear points	& understanding	•	evaluation				ost no too few	-1 irrelevant	concise and correct or
+ suitably allotted to Rep &		poor/wrong	irrelevant n	poorymong	irrelevant	no	-	nort/long some		no questions asked
most time used	1	^	partially relevant sor	too stort forig			1	ant parts many	0 none	some incorrect, inconclusive or too long
+ short, apt and clear, well	prioritized, 2	0	nostly adequate (reaso		mostly adequate	reasonable	1	urate, fully	1 relevant,	deeply incorrect or show
time managed efficiently	3	detailed, complex	fully adequate go	od condensed & accurate	fully adequate	good	2 con	clusive adequate	constructive	deep misconceptions
NOTES:										IYPT March 2019



REVIEWER Start from 1 and add/s 1 + (1,5) + (2,5) + (2) + (Ubtract ± + Of	- 0 =	7									
QUESTIONS ASKED	REVIEW OF REPO	ORT		REV	IEW OF OPPO	SITION		DIS	CUSSION ANA	ALYSIS	MISSED POINTS	ANSWERS TO JURY
0 — too few, mostly irrelevant	report evaluation & understanding	nros & cons	prioritisation		speech evaluation	pros & cons	prioritisation		discussion evaluation	correct own opinions	POINTED OUT	QUESTIONS . concise and correct or
relevant, meant to clarify unclear points	poor/wrong	irrelevant	no	0	poor/wrong	irrelevant	no	0 ==	almost no	too few	-I Intelevant	no questions asked
1 + suitably allotted to Rep & Opp,	1 partial	partially relevant	some	1	too short/long	partially relevant	some	-	too short/long	★some	0 none	some incorrect,
most time used	2 ─ ≼ good	pnostly adequate	reasonable	2-7	informative, apt	mostly adequate	reasonable	1-1	elevant parts	many	relevant,	inconclusive or too long
+ short, apt and clear, well prioritized, time managed efficiently	detailed, complex	fully adequate	≯ good	3	condensed & accurate	fully adequate	≺ good	2	accurate, conclusive	fully adequate	constructive	deeply incorrect or show deep misconceptions

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	from 1 and add/subtra	act	回点回 \$43000kg	SCORESHEET Fight 3 A, Stage: 2,	Problem No	14 sig	n /		Lasserus, Max
1+4,5+1,5	- 95 =	6	回葵都	Rep: Iran Role	Mo hoen	Opp: Hungary (séci Re	v: Wien Tole	
REPORT phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH (relevant arguments/respon	reporter's conduct at the	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
almost no	almost no	too few	manufacture management and	others' data, incorrectly cited	misunderstood	unclear, chaotic	0 too few	discussion	
some	some	some	some	review of sources, cited	partly average	partly clear	some	some aspects fine	concise and correct or
fair	fair	fair well performed,	not well fitting	some own input	some aspects	some parts	1 many		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	quite detailed,	+ results explained	+ theory limits	considerable experimental	interesting	overall clear,	convincingly suppor		
6 demonstrative	correct	errors analysed	explained, conclusive	or theoretical	solution	demonstrative	3 proved deep	II - EEI -l	deeply incorrect or show deep misconceptions
deep and comprehensible, shows physical insight	· · · ·	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	understanding	overall efficient	deep misconceptions
OPPONENT 1 +	ng	N (SPEECH) tanding of releva add it nothing no or it nothing no or it no points a sowant point point points a sowant point poi	nt topics own opinion presented presented too few some corre many corre him ically all suggestion own opinion presented presented too few some corre many corre him provem suggestion own opinion presented to few some correspondents of the suggestion own opinion presented to few some correspondents of the suggestion of the suggestion own opinion presented to few some correspondents of the suggestion of the	no poor reasonable fair efficient wery good +	rent scier o al	DN WITH REPORTER elevant own opin tiffic topics present most no too fev few some some some corr good many cor w crucial prove suggestion	the discussion poor some aspects freet good rect some aspects efficient ment overall efficient	no ne some reasonable cient fair	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 + 15 + 2	from 1 and add/subtra	act	= (4)						
QUESTIONS ASKED	RE	VIEW OF REPOR	Т	REVIEW OF OPPO	SITION		SION ANALYSIS	MISSED POINTS	ANSWERS TO JURY
0 too few, mostly irrelevant		report evaluation	pros & cons priorit	sation speech	pros & cons	autantalanatan	scussion correct own aluation opinions	POINTED OUT	QUESTIONS
relevant, meant to clarify	unclear points	& understanding		evaluation		0 3	most no too few	-1 irrelevant	o concise and correct or no questions asked
1 + suitably allotted to Rep	& Opp,	poor/wrong	irrelevant n	poor, mong	irrelevant	too	short/long some	none	some incorrect,
nost time used	1	~	partially relevant soi	Too silorifiend	partially relevant	some	vant parts many	0 e none	inconclusive or too long
+ short, apt and clear, we	Il prioritized,	good •	mostly adequate reaso		mostly adequate	reasonable	ccurate, fully	1 relevant,	deeply incorrect or show
time managed efficiently	3	detailed,	fully go	od condensed & accurate	fully adequate	The second	nclusive adequate	constructive	deep misconceptions
		complex	adequate	accurate	ducquate				
NOTES:					* * *				IYPT – March 20:

REPORTER Start f	from 1 and add/subtra	act		SCORESHEET Fight 3 A, Stage: 2, I	Problem No	się	towel)		Steiner, Daniel
1 + 5,75 + 2,23	-[0]=[9]	回旋变	Rep: Iran		Opp: Hungary	Rev	: Wien	
REPORT phenomenon	theory/model	relevant	comparison between	own contribution	task fulfilment	science communication	DISCUSSION WITH O	reporter's	ANSWERS TO JURY, OPPONENT, and
0 explanation		experiments	theory and experiment		misunderstood	unclear, chaotic	arguments/respons	conduct at the	REVIEWER'S QUESTIONS
almost no some	almost no some	too few some	no/ almost no some	others' data, incorrectly cited 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	some	some aspects fine	no questions asked
3		well performed,	deviations	+ some interesting results	some aspects	some parts	many	good	some incorrect,
good 5 detailed	good quite detailed,	sufficient number results explained	qualitatively analysed + theory limits	considerable experimental	above average interesting	well done overall clear,	2 + data/theory convincingly support	some aspects deficient	inconclusive or too long
demonstrative deep and comprehensible, shows physical insight		+ reproducible, convincing analysis	explained, conclusive well fitting, deviations analysed, conclusive	or theoretical considerable experimental and theoretical	solution greater extent than expected	+ complex concepts well communicated	3 — proved deep understanding	overall efficient	deeply incorrect or show deep misconceptions
0	from 1 and add/subtr		") différent ") Aring le	10 +	smobers	·)	rod diameter	· 7	
QUESTIONS ASKED 1 too few, mostly irrelevant relevant, aimed at resolvin unclear points in the repor + short, apt and clear, well prioritized, all time used	pres o almos some r 2 mai	standing of entation add standing on or in ain points an points on points or in ain ain points or in ain ain ain ain ain ain ain ain ain	own opinion ressed presented rrelevant too few few some ome some correc nany many correc	no poor reasonable fair efficient	ent scier of all side 1 2 × 1 1 3	ON WITH REPORTER elevant own opin ntific topics present most no too fe few some some some opin good many con	opponent's conducted the discussion w poor some aspects fin rrect good rrect some aspects effici	no e some reasonable	ANSWERS TO JURY and REVIEWER'S QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show
NOTES:	4 practica	1	ically all + improvement suggestions	very good	ed 4 p	ovint(s) + improve suggesti	overall efficient	very good	deep misconceptions ark about frue
REVIEWER Start	from 1 and add/subtr	L) 100 m	ich	·) Euler - L		question	Sec	instree	1
1 + 1,5 + 2,5	+ 2,5 + 1,	5 ± 0,5 -	0=8	uncombr	0 1 .0	×	*) un	reasonable	providion x
QUESTIONS ASKED too few, mostly irrelevant relevant, meant to clarify suitably allotted to Rep 8 most time used short, apt and clear, wel time managed efficiently	unclear points 0		pros & cons prioritis irrelevant no partially relevant som mostly adequate reasor fully adequate good	poor/wrong too short/long able informative, apt condensed &	pros & cons	no al too reasonable	SION ANALYSIS scussion correct own opinions Imost no too few short/long some evant parts many ccurate, fully adequate	MISSED POINTS POINTED OUT irrelevant none relevant, constructive	ANSWERS TO JURY QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions
NOTES:) questo	ion about	ongles ,	unecernary	× ·) og	ood num	mary			IYPT – March 2019

×900,00 REPORTER Start from 1 and add/subtract Eber, Alexander Fight 3 A, Stage: 3, Problem No. Rev: BG/BRG Villach 2 Opp: Wien Rep: Hungary ANSWERS TO JURY, **DISCUSSION WITH OPPONENT** REPORT reporter's OPPONENT, and relevant comparison between phenomenon task fulfilment science communication relevant own contribution theory/model conduct at the experiments theory and experiment **REVIEWER'S QUESTIONS** explanation arguments/responses discussion unclear, chaotic no/almost no others' data, incorrectly cited misunderstood too few almost no almost no too few poor partly clear review of sources, cited partly concise and correct or some some some some aspects fine some no questions asked average fair not well fitting some own input average fair fair good many some parts well performed. deviations some aspects some incorrect, + some interesting results good good some aspects above average well done sufficient number qualitatively analysed + data/theory inconclusive or too long overall clear, quite detailed. + results explained + theory limits considerable experimental interesting convincingly supported efficient detailed deeply incorrect or show solution e demonstrative or theoretical demonstrative correct errors analysed explained, conclusive proved deep overall efficient deep misconceptions greater extent + complex concepts well deep and comprehensible, detailed, complex, + reproducible, well fitting, deviations considerable experimental understanding and theoretical than expected communicated shows physical insight completely testable convincing analysis analysed, conclusive NOTES: **OPPONENT** Start from 1 and add/subtract ANSWERS TO JURY and **DISCUSSION WITH REPORTER** QUESTIONS ASKED OPPOSITION (SPEECH) REVIEWER'S QUESTIONS opponent's conduct of relevant own opinions own opinions time too few, mostly irrelevant understanding of relevant topics prioritisation prioritisation scientific topics presented the discussion presentation addressed presented management concise and correct or relevant, aimed at resolving almost no too few poor no questions asked almost nothing no or irrelevant too few poor unclear points in the report some aspects fine some some reasonable few some main points few some some some incorrect. + short, apt and clear, well reasonable some some correct good main points ® 8 some correct reasonable fair @ some inconclusive or too long prioritized, all time used some aspects efficient fair good many correct fair efficient all relevant points many many correct deeply incorrect or show new crucial + improvement + improvement NOTES: overall efficient very good deep misconceptions practically all points practically all very good suggestions suggestions all time used point(s) REVIEWER Start from 1 and add/subtract ANSWERS TO JURY MISSED POINTS **DISCUSSION ANALYSIS** REVIEW OF OPPOSITION **REVIEW OF REPORT QUESTIONS ASKED** QUESTIONS discussion correct own POINTED OUT report evaluation speech too few, mostly irrelevant pros & cons prioritisation pros & cons prioritisation evaluation opinions concise and correct or & understanding evaluation irrelevant relevant, meant to clarify unclear points no questions asked too few almost no poor/wrong irrelevant no irrelevant no poor/wrong some + suitably allotted to Rep & Opp, too short/long too short/long partially relevant none some incorrect. partial partially relevant some some most time used relevant parts many inconclusive or too long reasonable informative, apt mostly adequate reasonable good mostly adequate relevant, + short, apt and clear, well prioritized, accurate, fully deeply incorrect or show fully detailed. fully condensed & constructive time managed efficiently good adequate conclusive good deep misconceptions adequate adequate accurate complex points pim porton! IYPT - March 2019 points NOTES

SCORESHEET

REPORTER Start 1 + C + 2	from 1 and add/subtr	act	[SCORESH Fight 3 A, Rep: Hun	Stage: 3, Pro	oblem No.	Opp: Wie		While	v: BG/BRG Villac	Werbach, Katharina
REPORT phenomenon explanation almost no	theory/model almost no	relevant experiments too few	theory and	on between Lexperiment most no ot	own contril		ask fulfilmen misunderstoo	d unclear,	munication chaotic	relevant arguments/respor	reporter's	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
1 some	some	some	SC	ome	review of sour	ces, cited	partly	partly		some	some aspects fine	concise and correct or
2 fair	fair	fair		ell fitting	some own	And the second second second second second	average	avera		many	good \	no questions asked
good good	good	well performe sufficient numb		ations ely analysed	+ some interest	ting recults	some aspects above average			+ data/theory	some aspects	some incorrect,
5 detailed	quite detailed,	+ results explain	- 11	AND ADDRESS OF THE PARTY OF THE PARTY OF	considerable ex	perimental	interesting	overall		convincingly suppo		deeply incorrect or show
6 demonstrative	correct	errors analyse	The second second second	, conclusive	or theore		solution	demons		proved deep	overall efficient	deep misconceptions
deep and comprehensible, shows physical insight		+ reproducible			considerable ex and theor		greater exten than expected	d commun	nicated	understanding		
OPPONENT 1 + 1 + 1	t from 1 and add/subt	to end	bair	your	moole	2 i Q	900	i la	u ih	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2000000	b; Spend / le
QUESTIONS ASKED	OPPOSITIO	N (SPEECH)					DISCUS	SION WITH R	EPORTER			ANSWERS TO JURY and
0 too few, mostly irrelevan	t under	standing of rel	levant topics addressed	own opinions presented	prioritisation	time managemen		relevant ientific topics	own opinio		prioritisation	REVIEWER'S QUESTIONS concise and correct or
relevant, aimed at resolv unclear points in the repo	almo	st nothing no	or irrelevant	too few	no	poor	0 ===	almost no	too few	poor	no	no questions asked
	1 some	main points V	few	some	some	reasonable	1	few \	some	some aspects f		some incorrect,
+ short, apt and clear, we prioritized, all time used	2 ma	in points	some	some correct	reasonable	fair	2	some	some corre		reasonable	inconclusive or too long
prioritized, all time daed	3 all rele	evant points	many	many correct	fair	efficient	- 3	good	+ improvem	ent		- deeply incorrect or show
NOTES:	4 practica	ally all points p	ractically all	+ improvemen suggestions	very good	all time used	4 -	new crucial point(s)	suggestion		nt very good	deep misconceptions
REVIEWER Star 1 + 15 + 15 QUESTIONS ASKED	t from 1 and add/subt	ract) EVIEW OF REP		=6	REVIEV	V OF OPPOSI	ITION		DISCUSS	ION ANALYSIS	MISSED POINTS	
		report evaluation	on			speech				cussion correct own	POINTED OUT	QUESTIONS
o — too few, mostly irrelevan		& understandir	pros & co	ons prioritisa	tion	evaluation	pros & cons	prioritisation	Cva	luation opinions	-1 irrelevant	concise and correct or
relevant, meant to clarify		poor/wrong	irreleva	nt no	1 0 - p	oor/wrong	irrelevant	no		too few		no questions asked
+ suitably allotted to Rep	& Opp,	partial	partially rel	evant some	1 to	o short/long p	oartially releva	ent some		nort/long some	none	some incorrect,
	all asiasitized	good	mostly ade	quate reasona	ble 2 infe	ormative, apt	mostly adequa	ate reasonable		ant parts many fully	relevant,	inconclusive or too long
+ short, apt and clear, we time managed efficiently		detailed,	fully	good	_ c	ondensed &	fully	good	-	curate, fully adequate	constructive	e deeply incorrect or show deep misconceptions

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IYPT - March 2019

sign Waln Jylly Irgang, Klaus Fight 3 A, Stage: 3, Problem No. = Opp: Wien Rev. BG/BRG Villach 2 Rep: Hungary ANSWERS TO JURY. **DISCUSSION WITH OPPONENT** REPORT reporter's OPPONENT, and relevant comparison between phenomenon task fulfilment science communication relevant theory/model own contribution theory and experiment conduct at the experiments explanation **REVIEWER'S QUESTIONS** arguments/responses discussion unclear, chaotic too few no/almost no others' data, incorrectly cited misunderstood almost no almost no too few poor partly clear review of sources, cited some some partly concise and correct or some some some aspects fine some average not well fitting some own input average fair fair no questions asked O good many some aspects some parts well performed, deviations some incorrect, good + some interesting results good qualitatively analysed above average well done sufficient number + data/theory some aspects Convincingly supported inconclusive or too long considerable experimental overall clear, interesting detailed quite detailed. (+) results explained + theory limits efficient 0 deeply incorrect or show explained, conclusive or theoretical O solution demonstrative errors analysed demonstrative correct proved deep deep misconceptions overall efficient + complex concepts well well fitting, deviations considerable experimental greater extent deep and comprehensible, detailed, complex, + reproducible. understanding and theoretical than expected communicated shows physical insight completely testable convincing analysis analysed, conclusive NOTES: **OPPONENT** Start from 1 and add/subtract ANSWERS TO JURY and DISCUSSION WITH REPORTER OPPOSITION (SPEECH) QUESTIONS ASKED opponent's conduct of REVIEWER'S QUESTIONS understanding of relevant topics own opinions time relevant own opinions too few, mostly irrelevant prioritisation prioritisation scientific topics presented the discussion presentation addressed presented management concise and correct or relevant, aimed at resolving (too few almost no 1 too few poor no no or irrelevant O poor almost nothing no no questions asked unclear points in the report some reasonable few some aspects fine some some main points some some few some incorrect, + short, apt and clear, well some correct Ge sonable fair some some correct good reasonable main points 3 some inconclusive or too long prioritized, all time used many correct some aspects efficient fair all relevant points many many correct fair efficient good deeply incorrect or show new crucial + improvement + improvement NOTES: overall efficient very good deep misconceptions practically all points practically all very good point(s) suggestions suggestions all time used goes houd in bound. REVIEWER Start from 1 and add/subtract/ **REVIEW OF OPPOSITION** DISCUSSION ANALYSIS MISSED POINTS ANSWERS TO JURY REVIEW OF REPORT QUESTIONS ASKED discussion correct own QUESTIONS POINTED OUT report evaluation speech too few, mostly irrelevant pros & cons prioritisation pros & cons prioritisation evaluation opinions & understanding evaluation concise and correct or irrelevant relevant, meant to clarify unclear points too few almost no no questions asked irrelevant no poor/wrong poor/wrong irrelevant no + suitably allotted to Rep & Opp. too short/long some partially relevant partially relevant some none some incorrect, partial some too short/long most time used relevant parts many inconclusive or too long informative, apt mostly adequate reasonable good O mostly adequate reasonable relevant. + short, apt and clear, well prioritized, accurate, fully deeply incorrect or show condensed & fully detailed, fully constructive time managed efficiently good conclusive adequate good deep misconceptions accurate adequate adequate complex IYPT - March 2019

SCORESHEET

REPORTER

NOTES:

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Start from 1 and add/subtract

REPORTER

Start from 1 and add/subtract

1 + 2 5 + 12 - 0 5 = 5

REPORT

Rep: Hungary

Opp: Wien

Rev: BG/BRG Villach 2

Rep: Hungary

Opp: Wien

Opp: Wien

Opp: Wien

Rev: BG/BRG Villach 2

Report

Report

Report

Report

Opp: Wien

Opp: Wien

Rev: BG/BRG Villach 2

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Report

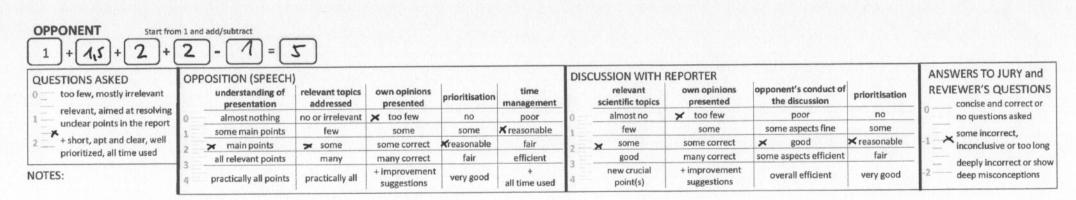
Opp: Wien

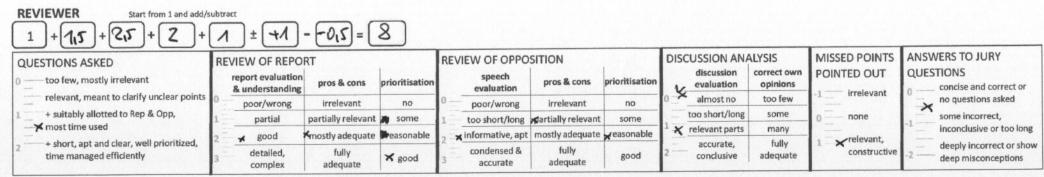
Rev: BG/BRG Villach 2

Report

EPOI	RT							DISCL	JSSION WITH OPP	ONENT	ANSWERS TO JURY,
	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	a	relevant irguments/responses	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
	almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	0 -		discussion	
	some	some	some	some	review of sources, cited	partly	partly clear	U	too few	poor	concise and correct or
	a fair	≯ fair	fair	not well fitting	some own input	× average	average		some some	some aspects fine	no questions asked
	× good	good	well performed, sufficient number	→ deviations	+ some interesting results	some aspects above average	some parts well done		many + data/theory	₩ good ✓ome aspects	some incorrect,
	detailed demonstrative	quite detailed,	+ results explained errors analysed	where the format and in the first contract the firs	considerable experimental or theoretical	interesting solution	✓ overall clear, demonstrative	0	onvincingly supported	1	deeply incorrect or sho
	eep and comprehensible,		+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	3	proved deep understanding	overall efficient	deep misconceptions

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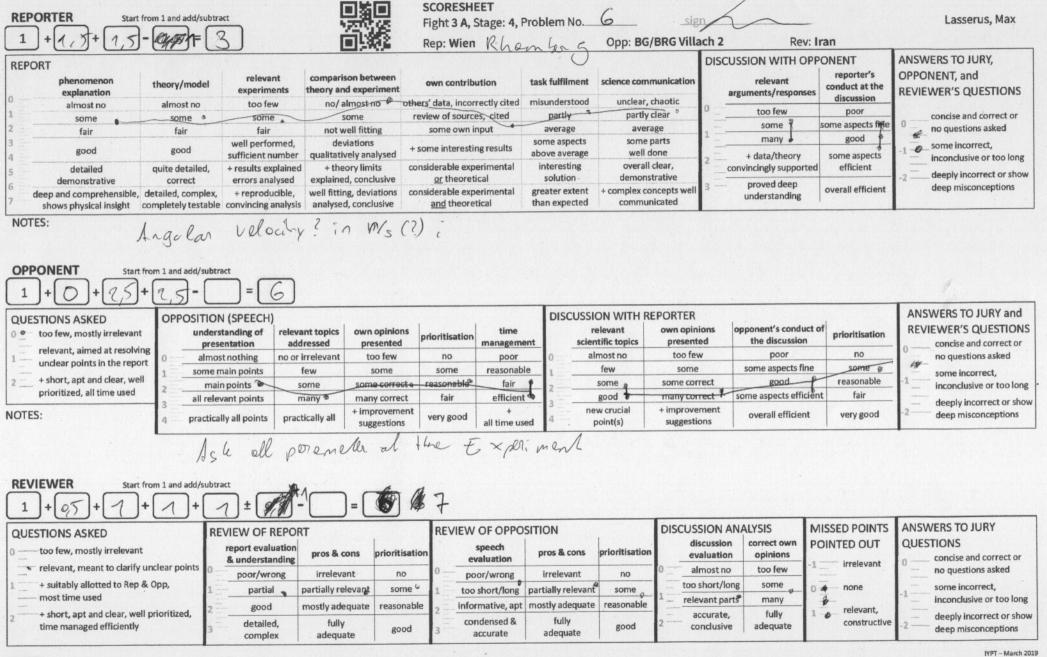
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Korner, Marianne

REPORTER 4,25 Start f	rom 1 and add/subtra	oct		SCORESHEET Fight 3 A, Stage: 3,	Problem No	sig	Jamel "	X.	Steiner, Daniel
1 + 455 + 2	- 0 = 1	7	回数条	Rep: Hungary		Opp: Wien	Rev	BG/BRG Villach	12
REPORT phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OF relevant arguments/response	PPONENT reporter's conduct at the	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
almost no	almost no	too few		others' data, incorrectly cited	misunderstood	unclear, chaotic	0 too few	discussion	
some	some	some	some	review of sources, cited	partly average	partly clear average	some	some aspects fine	o concise and correct or no questions asked
fair	fair	fair well performed,	not well fitting deviations	some own input	some aspects	some parts	1 many	good	
good	good	sufficient number	qualitatively analysed	+ some interesting results	above average	× well done	+ data/theory	some aspects	some incorrect,
5 detailed	quite detailed,	+ results explained		considerable experimental	interesting solution	overall clear, demonstrative	convincingly support	ed ×efficient	deeply incorrect or show
demonstrative deep and comprehensible,	correct detailed, complex.	+ reproducible,	explained, conclusive well fitting, deviations	or theoretical considerable experimental	greater extent	+ complex concepts well	3 — proved deep	overall efficient	deep misconceptions
		convincing analysis		and theoretical	than expected	communicated	understanding		
OPPONENT / Start:	from 1 and add/subtra	act 4	") oryn	metry not unde	r consider		oferent fluid	Lo	U
QUESTIONS ASKED too few, mostly irrelevant relevant, aimed at resolvir undear points in the report + short, apt and clear, well prioritized, all time used	present all relevant all releva	tanding of relevientation additional relevientation additional relevant rel	int topics own opinion presented irrelevant too few some ome some corre many many correstically all	no poor some geasonable ct reasonable fair efficien ent very good	nent scier 0 al ole 1 × 2 tt 3 ne	ON WITH REPORTER elevant own opin ntific topics present most no too fer few some some some cor good many cor w crucial + improve point(s) suggesti	the discussion w poor some aspects fin rect good rect some aspects efficient overall efficient	no e some reasonable ent fair	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
*) good question REVIEWER Start 1 + 1,5 + 1,45	from 1 and add/subtra	11 (gener 0 = 7 m	*) 28 A >	//	h on report	geech		
QUESTIONS ASKED	RE	VIEW OF REPOR	Т	REVIEW OF OPPO	SITION	DISCUS	SION ANALYSIS	MISSED POINTS	ANSWERS TO JURY
0 — too few, mostly irrelevant		report evaluation		isation speech	pros & cons	aufaultleation	(1) The state of t	POINTED OUT	QUESTIONS
relevant, meant to clarify		& understanding		evaluation		0 - 3	most no too few	1 irrelevant	0 concise and correct or no questions asked
+ suitably allotted to Rep 8		poor/wrong		o poor/wrong	irrelevant	110	short/long some	none	some incorrect,
most time used	1	-	X		partially relevant	Some 1 Stole	evant parts many		inconclusive or too long
+ short, apt and clear, wel time managed efficiently	I prioritized,	good detailed,	mostly adequate reason fully	condensed &	fully	3 - 3	ccurate, fully	relevant, constructive	deeply incorrect or show deep misconceptions
NOTES:	- //	complex	adequate	*) and and and	× adequate	e ball ?	·) no pre	ventation	
· · · · · · · ·) o		number e		evror e	Amotro	- erilisism	. 7) menhione	d rotation v

REPOR	RTER Start	from 1 and add/subtra	ct	288/8	Fight 3 A, Stage: 3,	Problem No	4	sign /		Lasserus, Max
1]+	-(3)+(2)	- = (2	高速域	Rep: Hungary		Opp: Wien	10	ev: BG/BRG Villach	12
REPORT			_	hand so 1 h				DISCUSSION WITH	OPPONENT	ANSWERS TO JURY,
KEFOKI	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communicati	on relevant arguments/respondence	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS
1	almost no	almost no	too few		others' data, incorrectly cited	misunderstood	unclear, chaotic	0 too few	discussion	
2	some	some	some	some	review of sources, cited	partly	partly clear average	some	some aspects fine	concise and correct or no questions asked
2	fair	fair	fair well performed,	not well fitting deviations	some own input	some aspects	some parts	1 many	good	
4	good	good o	sufficient number	qualitatively analysed	+ some interesting results	above average	well done	+ data/theor	y some aspects	some incorrect, inconclusive or too long
5	detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative	convincingly supp		deeply incorrect or show
19	p and comprehensible,		+ reproducible,	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts v	vell 3 proved deep understandin		deep misconceptions
NOTES:		completely testable	convincing unarysis	1 Unaryzea, consission						
OPPOI	NENT Start	from 1 and add/subtra	et = (
OUICETI	ONE ASKED	OPPOSITION	(SDEECH)			DISCUSSI	ON WITH REPORT	FR		ANSWERS TO JURY and
	ONS ASKED ofew, mostly irrelevant			nt topics own opinion	ns time			pinions opponent's con	duct of	REVIEWER'S QUESTIONS
444		prese	The state of the s	ressed presented	prioritisation	ent scien		ented the discuss	ion prioritisation	concise and correct or
4	evant, aimed at resolvir dear points in the repo	almos	t nothing no or	irrelevant too few	no poor	0 a	lmost no too	few poor	no	no questions asked
		1 some m	ain points	few some	some reasonati	ole 1	few so	ome some aspects		some incorrect,
The spanners	hort, apt and clear, well oritized, all time used	2 mair	points s	ome some corre	ct reaso nable e fair	e 2	some some	correct good	reasonable	inconclusive or too long
þri	orruzed, all tille used	all relev	ant points n	nany many corre	ct fair efficien	3		correct some aspects e	fficient fair	deeply incorrect or show
NOTES:		4 practical	ly all points prac	tically all + improvement suggestion	Very good			overall effici	ient very good	-2 deep misconceptions
REVIEW 1	10+15	from 1 and add/subtra	± 0,5-	= 8			Disc	LICCION ANALYSIS	AMISSED DOINTS	ANSWERS TO JURY
QUESTI	ONS ASKED	RE	VIEW OF REPOR	Т	REVIEW OF OPPO	SITION	DISC	USSION ANALYSIS	MISSED POINTS	
0 to	o few, mostly irrelevant		report evaluation	pros & cons prioriti	sation speech	pros & cons	prioritisation	discussion correct own evaluation opinions	POINTED OUT	QUESTIONS
re	levant, meant to clarify	unclear points 0	& understanding		evaluation		0	almost no too few	-1 irrelevant	o concise and correct or no questions asked
	suitably allotted to Rep		poor/wrong	irrelevant n	Position	irrelevant	no	too short/long some		some incorrect,
	ost time used	1	partial	partially relevant sor		partially relevant	Some	relevant parts many o	none o	inconclusive or too long
+	short, apt and clear, wel	prioritized.	good	mostly adequate reaso	nable 2 informative, ap	mostly adequate	reasønable	accurate, fully	relevant,	deeply incorrect or show
16	ne managed efficiently	3	detailed, complex	fully go	od 3 condensed & accurate	fully	good 2	conclusive adequate	constructive	deep misconceptions
NOTES:		Bresent	ali-	+ Espen	discresi e					IYPT – March 2019

REPORTER Sta 1 + 1,75 + 2	art from 1 and add/subtra	nct		SCORESHEET Fight 3 A, Stage: 4, Rep: Wien	Problem No	Opp: BG/BRG Vill	ach 2 Re	v: Iran	Steiner, Daniel
REPORT phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH (relevant arguments/respon	reporter's	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
almost no some	almost no some	too few some	>no/ almost no some	others' data, incorrectly cited review of sources, cited	misunderstood partly	× partly clear	0 too 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	+ some interesting results	some aspects	some parts	many many	good	some incorrect,
4		sufficient number	qualitatively analysed		above average	well done	2 _ X+ data/theory	some aspects	inconclusive or too long
5 detailed demonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental or theoretical	interesting solution	overall clear, demonstrative	convincingly suppor	ted X efficient	deeply incorrect or show
deep and comprehensible shows physical insight	e, detailed, complex,	+ reproducible,	well fitting, deviations	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	3 — proved deep understanding	overall efficient	deep misconceptions
1 + 0,5 + 2 QUESTIONS ASKED	ort from 1 and add/subtra	= 6		·) Heory -	DISCUSSI	ON WITH REPORTER			ANSWERS TO JURY and
too few, mostly irreleva	nrese		ant topics own opinior iressed presented	prioritisation time		relevant own opin ntific topics present		prioritisation	REVIEWER'S QUESTIONS ✓ concise and correct or
relevant, aimed at resol undear points in the rep	1 almos	t nothing no or	irrelevant too few	no poor	0 a	lmost no too fe	w poor	no	no questions asked
+ short, apt and clear, w	1 some m	nain points	few some	some reasonab	ole 1	few some			some incorrect,
prioritized, all time used	2 mair		ome some correc		2	some some co		reasonable	inconclusive or too long
NOTES	3 all relev	rant points r	nany many correct + improvement		3	good many co	ement		deeply incorrect or show
NOTES:	4 practical	ly all points prac	tically all suggestions	very good	At The State of th	point(s) suggest	overall emicier	nt very good	deep misconceptions
	used) function -) for the form 1 and add/subtra + 2,5 + 1,	leary (-) record of to 5 ± 05 -	exilts missing balls noted. (0) = 9	y moted was	noted) good of	hir on erro veurnor cone	rs lust ~) edge case dux
QUESTIONS ASKED	RE	VIEW OF REPOR	т	REVIEW OF OPPO	SITION	DISCUS	SION ANALYSIS	MISSED POINTS	ANSWERS TO JURY
too few, mostly irreleva	nt	report evaluation	pros & cons prioriti	speech speech	pros & cons	mula distantian	scussion correct own	POINTED OUT	QUESTIONS
relevant, meant to clarif		& understanding		evaluation	pros accoris	-	valuation opinions	-1 irrelevant	0 × concise and correct or
1 + suitably allotted to Re		poor/wrong	irrelevant no		irrelevant		Imost no too few	-	no questions asked
most time used	1 =		partially relevant son		partially relevant	Solite 1 role	short/long some	0 none	some incorrect, inconclusive or too long
+ short, apt and clear, w	vell prioritized,	× good	mostly adequate reason		X	reasonable	ccurate, fully	1 relevant,	
time managed efficient	у 3	detailed, complex	fully adequate good	od 3 condensed & accurate	fully adequate		ondusive adequate	constructive	deeply incorrect or show deep misconceptions
NOTES:) good	clear que	shins							IYPT – March 2019



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11P1 - March 201:

REPORTER

Start from 1 and add/subtract



SCORESHEET

Fight 3 A, Stage: 4, Problem No.

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Korner, Marianne

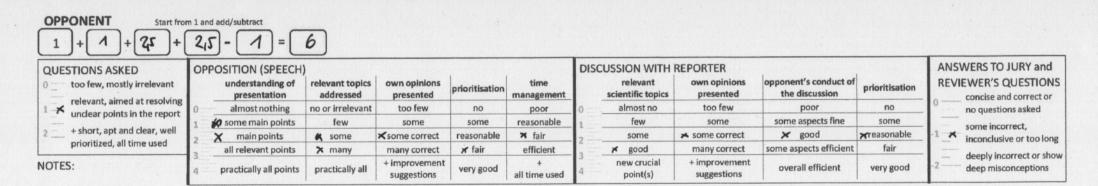
Rep: Wien

Opp: BG/BRG Villach 2

Rev: Iran

PORT								DISC	JSSION WITH OPP	ONENT	ANSWERS TO JURY,	
	nomenon	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication		relevant rguments/responses	reporter's conduct at the	OPPONENT, and REVIEWER'S QUESTIONS	
alı	most no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	unclear, chaotic	-	,	discussion		
	some	some	some	≯ some	review of sources, cited	× partly	partly clear	0	too few	poor	concise and correct or	
phr	fair	メ fair	≠ fair	not well fitting	✗ some own input	average	average	-	some	some aspects fine	no questions asked	
	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	some aspects above average	✓ some parts well done		★ many + data/theory	★ good some aspects	some incorrect,	
	detailed nonstrative	quite detailed, correct	+ results explained errors analysed	+ theory limits explained, conclusive	considerable experimental	interesting solution	overall clear, demonstrative	2	onvincingly supported		deeply incorrect or show	
		detailed, complex, completely testable	+ reproducible, convincing analysis	well fitting, deviations analysed, conclusive	considerable experimental and theoretical	greater extent than expected	+ complex concepts well communicated	3 —	proved deep understanding	overall efficient	deep misconceptions	

NOTES:



REVIEWER Start from 1 and add/s	1 P	2	- (D,S) = (8									
QUESTIONS ASKED	RE	VIEW OF REPO	RT		REV	IEW OF OPPO	SITION		DISC	CUSSION ANA	ALYSIS	MISSED POINTS	ANSWERS TO JURY
0 — too few, mostly irrelevant		report evaluation & understanding	pros & cons	prioritisation		speech evaluation	pros & cons	prioritisation		discussion evaluation	correct own opinions	POINTED OUT	QUESTIONS concise and correct or
relevant, meant to clarify unclear points	0	· poor/wrong	irrelevant	no	0 poor/wi	poor/wrong	irrelevant	no	0 aln	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	4	too short/long	. some	0 - none	some incorrect,
+ short, apt and clear, well prioritized,	2	- good	mostly adequate	reasonable	2	informative, apt	mostly adequate	reasonable		relevant parts	• many	relevant,	inconclusive or too long
time managed efficiently	3	detailed, complex	fully adequate	good	3	condensed & accurate	fully adequate	good	2	accurate, conclusive	fully adequate	constructive	deeply incorrect or show deep misconceptions

NOTES:

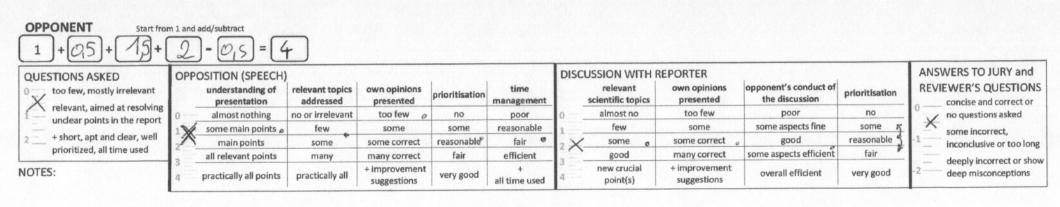
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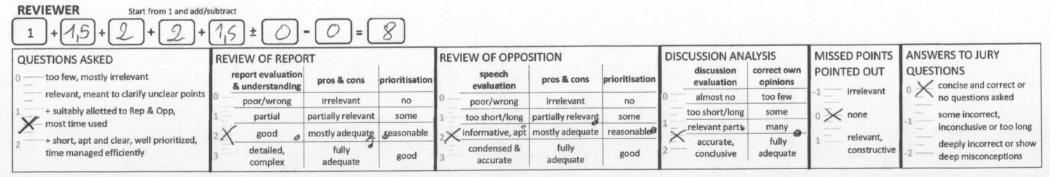
IYPT - March 2019

REPORTER Start 1 + 2 + 4	from 1 and add/subtra	3		SCORESHEET Fight 3 A, Stage: 4, Rep: Wien	Problem No	Opp: BG/BRG Villa	ach 2 Rev.	Iran	Irgang, Klaus
REPORT phenomenon explanation almost no some fair good detailed demonstrative deep and comprehensible, shows physical insight		relevant experiments too few some fair well performed, sufficient number + results explained errors analysed + reproducible, convincing analysis	comparison between theory and experiment of almost no 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 OF relevant arguments/response too few some many data/theory convincingly supported proved deep understanding	reporter's conduct at the discussion poor some aspects fine good some aspects	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
	OPPOSITION Unders prese 0 almos 1 psome n 2 main 3 all relevan	(SPEECH) tanding of releva entation add t nothing no or in the relevant points of the relev	own opinio ressed presentec rrelevant too few some ome some corre hany many corre suggestion	no poor reasonal ct Yeasonable Q fair efficier ent very good +	nent scient o a ble 1	ION WITH REPORTER relevant own opin ritific topics present lmost no too fer few some some cor good many cor ew crucial point(s) suggesti	ted the discussion w poor some aspects fine rect good rect some aspects efficient overall efficient	prioritisation no some ()easonable	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 1 + 1,5 + 2 QUESTIONS ASKED 1 too few, mostly irrelevant relevant, meant to clarify suitably allotted to Report most time used 2 + short, apt and clear, we time managed efficiently	rfrom 1 and add/subtra + 1,5 + RE RE unclear points & Opp,	TIEW OF REPOR report evaluation & understanding poor/wrong partial	For the proof to t	REVIEW OF OPPO speech evaluation poor/wrong too short/long informative, appond of accurate	doesn't	prioritisation no t some Preasonable DISCUS di ev 0 al Fela	SION ANALYSIS siscussion correct own opinions lemost no too few	MISSED POINTS POINTED OUT irrelevant none relevant, constructive	ANSWERS TO JURY QUESTIONS concise and correct or no questions asked some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions
NOTES:			Menedu	y here					Trr - Willeli ZVA

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





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REPORTER Start from 1 and add/subtract Fight 3 A, Stage: 4, Problem No. 6 Werbach, Katharina Opp: BG/BRG Villach 2 Rep: Wien Rev: Iran ANSWERS TO JURY, **DISCUSSION WITH OPPONENT** REPORT reporter's OPPONENT, and comparison between relevant phenomenon science communication relevant task fulfilment own contribution theory/model conduct at the theory and experiment experiments **REVIEWER'S QUESTIONS** explanation arguments/responses discussion unclear, chaotic no/almost no \ others' data, incorrectly cited misunderstood almost no almost no too few too few poor review of sources, cited \ partly partly clear concise and correct or some some some some some some aspects fine average no questions asked fair fair fair not well fitting some own input average some parts many good some aspects well performed. deviations some incorrect, + some interesting results good good well done above average sufficient number qualitatively analysed + data/theory some aspects inconclusive or too long

SCORESHEET

considerable experimental

or theoretical

considerable experimental

and theoretical

+ theory limits

explained, conclusive

well fitting, deviations

analysed, conclusive

+ results explained

errors analysed

+ reproducible,

quite detailed,

correct

shows physical insight completely testable convincing analysis

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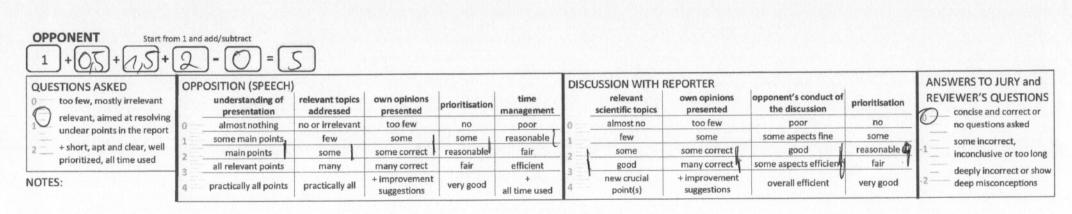
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NOTES:

detailed

demonstrative

deep and comprehensible, detailed, complex,



interesting

solution

greater extent

than expected

overall clear.

demonstrative

+ complex concepts well

communicated

efficient

overall efficient

convincingly supported

proved deep

understanding

REVIEWER Start from 1 and add/s	77.	- () = (7									
QUESTIONS ASKED	REVIEW OF REPO	RT		REV	IEW OF OPPO	SITION		DIS	CUSSION ANA	ALYSIS	MISSED POINTS	ANSWERS TO JURY
0 — too few, mostly irrelevant	report evaluation & understanding	nros & cons	prioritisation		speech evaluation	pros & cons	prioritisation		discussion evaluation	opinions	POINTED OUT	QUESTIONS concise and correct or
relevant, meant to clarify unclear points	0 poor/wrong	irrelevant	no	0	poor/wrong	irrelevant	no	too short/long som	too few	-1 III III III	no questions asked	
+ suitably allotted to Rep & Opp, most time used	1 partial	partially relevant	some	1	too short/long	partially relevant	some				none	some incorrect, inconclusive or too long
	good 1	mostly adequate	reasonable	le\ 2	informative, apt	mostly adequate	reasonable				relevant,	
+ short, apt and clear, well prioritized, time managed efficiently	detailed, complex	fully adequate	good	3	condensed & accurate	fully adequate	good	2-	accurate, conclusive	fully adequate	constructive	deeply incorrect or show deep misconceptions

NOTES:

deeply incorrect or show

deep misconceptions