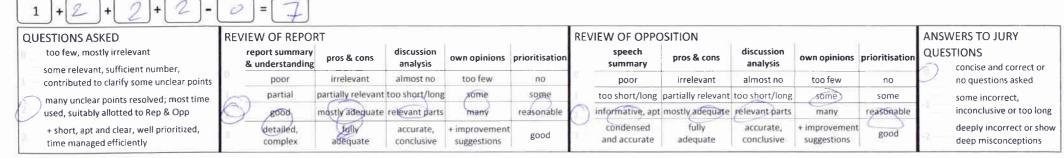
<b>EPORTER</b> Start $1 + 5^{-1} + 3^{-1}$	from 1 and add/subtra $= \bigcirc \bigcirc = \bigcirc \bigcirc$	<sup>ct</sup>	stage: 3 reporter: 10	fight (round Decig opponent:	no.): fl wel 18G	room: reviewer:	fei .		uror's name: ignature:	
EPORT phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	DISCUSSION WITH C scientific contribution	relevant arguments/responses	reporter's conduct at the discussion	ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS	
almost no some fair	almost no some fair	too few some fair	no/ almost no some not well fitting	others' data, incorrectly cited review of sources, cited some own input	misunderstood partly average	only technical points cleared	too few some	poor some aspects fine	concise and correct or no questions asked	
good detailed demonstrative deep and comprehensible, shows physical insight	good quite detailed, correct detailed, complex, completely testable	well performed, sufficient number + results explained errors analysed + reproducible, convincing analysis	deviations qualitatively analysed + theory limits explained, conclusive well fitting, deviations analysed, conclusive	+ some interesting results considerable experimental or theoretical considerable experimental and theoretical	interesting solution some aspects above average greater extent than expected	some scientific points cleared interesting points discussed brought in new physics	+ data/theory convincingly supported proved deep understanding	good some aspects efficient overall efficient	some incorrect, inconclusive or too lon deeply incorrect or she deep misconceptions	
OTES: PPONENT Star	from 1 and add/subtra									

QUESTIONS ASKED	OPP	OSITION (SPEECH)					DIS	CUSSION W	ITH REPOR	RTER			ANSWERS TO JURY and
almost no, irrelevant relevant, aimed at resolving		understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management		scientific contribution	relevance of topics	own opinions presented	opponent's conduct of the discussion	prioritisation	REVIEWER'S QUESTION
unclear points in the report	0	almost nothing	no or irrelevant	very little	no	poor	0	almost no	irrelevant	very little	poor	no 🤇	no questions asked
	4	some main points	few	some	some	reasonable	12	little	some	some	some aspects fine	some	some incorrect,
+ short, apt and clear, well prioritized, all time used	2	main points	some	some correct	reasonable	fair	20	partial	average	some correct	good	reasonable	inconclusive or too lon
phontized, all time used		all relevant points	тану	many correct	fair	efficient	5	good	most	many correct	some aspects efficient	fair	
IOTES:	a –	practically all points	practically all	+ improvement suggestions	very good	+ all time used	-	new crucial point(s)	all relevant discussed	+ improvement suggestions	overall efficient	very good	deeply incorrect or sho deep misconceptions



REVIEWER

Start from 1 and add/subtract

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REPORTER Start fro	m 1 and add/su	btract	stag	DRESHEET		tht (round no.	): F	room: reviewe	r:	prob	lem no.:		ror's name: 200504
explanation almost no some fair good detailed demonstrative deep and comprehensible, do		too few some fair well performed, sufficient pumbe , + results explaine errors analysed	er qualitatively ed + theory explained, e , well fitting, c	xperiment           sst no         othing           e         m           fitting         m           ions         +           analysed         +           limits         coonclusive           deviations         coonclusive	own contribut ers' data, incorre eview of sources some own inp some interesting nsiderable exper or theoretic nsiderable exper and theoretic	ectly cited m s, cited put g results rimental s al al rimental g	sk fulfilment isunderstood partly average interesting solution ome aspects solve average reater extent nan expected	son poi inter	DN WITH ccientific ntribution lmost no y technical nts cleared nts cleared esting poin liscussed ught in new physics	argument: too c m hts + data convincing v prove	evant rej s/responses ar o few sc any any a/theory dy supported ed deen	porter's conduct t the discussion poor ome aspects fine 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
	om 1 and add/so	= SITION (SPEECH) understanding of presentation	relevant topics addressed no or irrelevant few some many	own opinions presented very little some some correct many correct	prioritisation no some reasonable fair	time management poor reasonable fair etficient	DISCUSSIO scient contribu almos litti parti	ific releva ution of top t no irreleva e son ial avera	nce own pics pr vant vi ne age son	ery little some or correct	opponent's cond of the discussio poor some aspects fi good ome aspects offic	ne some reasonable	concise and correct or no questions asked some incorrect, inconclusive or too long
NOTES: REVIEWER Start from 1 + + + + + + + + + + + + + + + + + + +	om 1 and add/s	ubtract REVIEW OF REP	practically all	+ imp(overhen suggèstions	very good	+ all time used	new cr point	Carl Street of the	ssed su	provement ggestions	overall efficier	nt very good	deeply incorrect or show deep misconceptions
too few, mostly irrelevant some relevant, sufficient num contributed to clarify some u		report summa & understandi poor	ry ng pros & cons irrelevant	almost no	too few	prioritisation	spe sum	eech pi mary i	os & cons	discussio analysis almost n	own opinio too few		OLIESTIONS
<ul> <li>many unclear points resolved</li> <li>used, suitably allotted to Rep</li> <li>+ short, apt and clear, well p</li> <li>time managed efficiently</li> </ul>	& Орр	good detailed, complex		ant too short/lon ate relevant part accurate, conclusive	-	reasonable nt good	cond	itive, apt mos ensed	and the second second	nt too short/l te relevant p accurate conclusiv	arts many e, + improven	2000 B	some incorrect, inconclusive or too long deeply incorrect or show deep misconceptions

REPO		rom 1 and add/subtra		SCORESHI stage: reporter:	EET fight (round opponent:	no.):	room: reviewer:	problem no.:	1 <b>X</b>	ror's name: TOPATRAM nature:
REPOR	RT phenomenon explanation almost no	theory/model almost no	relevant experiments too few	comparison between theory and experiment no/ almost no	own contribution	task fulfilment misunderstood	DISCUSSION WITH ( scientific contribution almost no	OPPONENT relevant arguments/responses too few	reporter's conduct at the discussion	ANSWERS TO JURY, OPPONENT and REVIEWER'S QUESTIONS
± 2 5 -	some fair good	some fair good	some fair well performed, sufficient number	some not well fitting deviations ,qualitatively analysed	review of sources, cited some own input + some interesting results	partly average interesting solution	only technical points cleared some scientific points cleared	some	some aspects fine	concise and correct or no questions asked some incorrect,
		quite detailed, correct detailed, complex, completely testable	+ results explained errors analysed + reproducible, convincing analysis	+ theory limits explained, conclusive well fitting, deviations analysed, conclusive	considerable experimental or theoretical considerable experimental <u>and</u> theoretical	some aspects above average greater extent than expected	interesting points discussed brought in new physics	<ul> <li>+ data/theory</li> <li>convincingly supported</li> <li>proved deep</li> <li>understanding</li> </ul>	some aspects efficient overall efficient	deeply incorrect or show deep misconceptions

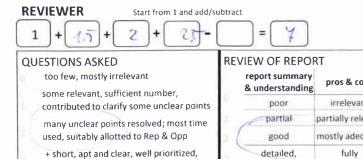
### OPPONENT

1 +

	1 1		S	 ۱. I	
-	+	0	1 - 1	=	1
-	1 1	>	-		+
	/ 1			/ 3	<u> </u>

Start from 1 and add/subtract

QUESTIONS ASKED	OPPOSITION (SPEECH)					DISCUSSION W	ITH REPOR	RTER			ANSWERS TO JURY and
almost no, irrelevant relevant, aimed at resolving	understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management	scientific contribution	relevance of topics	own opinions presented	opponent's conduct of the discussion	prioritisation	REVIEWER'S QUESTIONS concise and correct or
unclear points in the report	almost nothing	no or irrelevant	very little	no	poor	0 almost no	irrelevant	very little	poor	no	no questions asked
+ short, apt and clear, well	some main points	few	some	some	reasonable	little	some	some	some aspects fine	some	some incorrect.
prioritized, all time used	main points	some	some correct	reasonable	fair	partial	average	some correct	good	reasonable	inconclusive or too long
phontized, an time used	all relevant points	many	many correct	fair	efficient	good	most	many correct	some aspects efficient	fair	
NOTES:	practically all points	practically all	+ Improvement suggestions	very good	+ all time used	new crucial point(s)	all relevant discussed	+ improvement suggestions	overall efficient	very good	deeply incorrect or show deep misconceptions

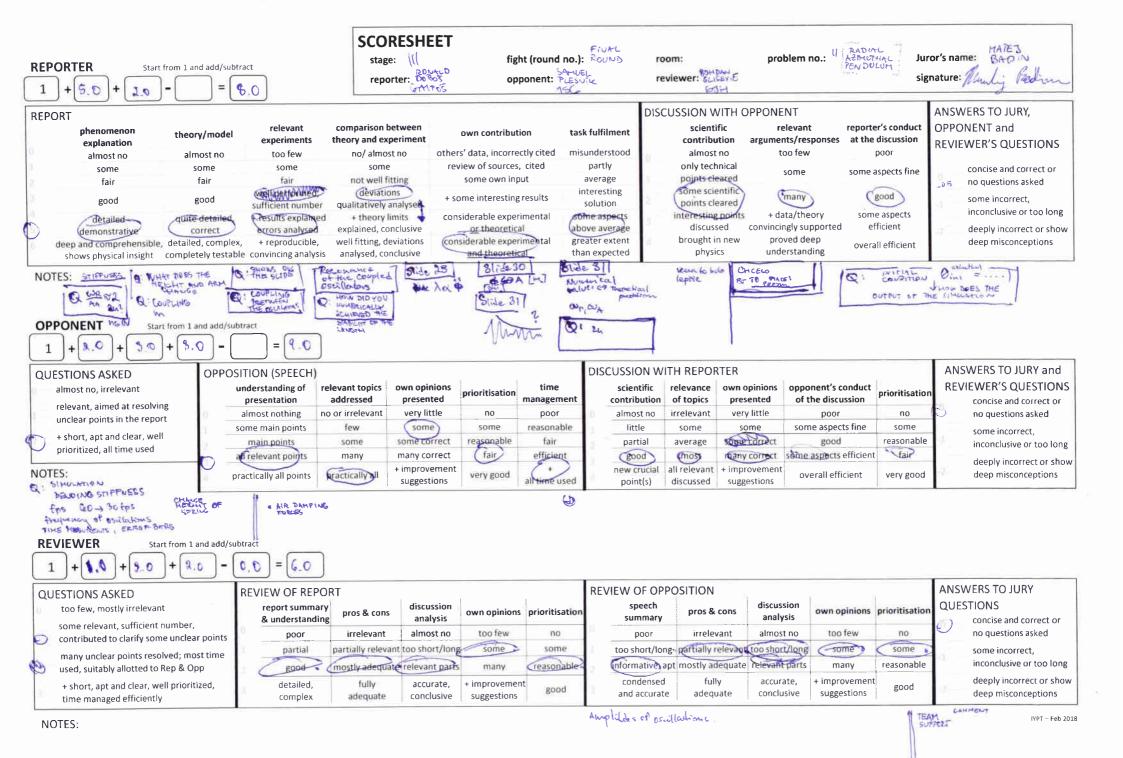


complex

т				REVIEW OF OPPO					ANSWERS TO JURY
pros & cons	discussion analysis	own opinions	prioritisation	sneech	pros & cons	discussion analysis	own opinions		QUESTIONS concise and correct or
irrelevant	almost no	too few	no	poor	irrelevant	almost no	too few	no	no questions asked
artially relevant	too short/long	some	some	too short/long	partially relevant	too short/long	some	some	some incorrect,
nostly adequate	relevant parts	many	reasonable	informative, apt	mostly adequate	relevant parts	many	reasonable	inconclusive or too long
fully adequate	accurate, conclusive	+ improvement suggestions	good	condensed and accurate	fully adequate	accurate, conclusive	+ improvement suggestions	good	deeply incorrect or show deep misconceptions

time managed efficiently

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REP	ORTER Start + $(4,5)$ + $(2,25)$	from 1 and add/subtra $- \left( \begin{array}{c} \\ \\ \\ \\ \\ \end{array} \right) = \left( \begin{array}{c} \\ \\ \end{array} \right)$	ict	SCORESHI stage: 5 reporter: 7	fight (round		room: reviewer: 63#	problem no.: //		ror's name: Milan Studik inature: Yawy
REPO			relevant	comparison between			DISCUSSION WITH O			ANSWERS TO JURY,
0	phenomenon explanation almost no	theory/model almost no	experiments too few	theory and experiment no/ almost no	own contribution others' data, incorrectly cited	task fulfilment misunderstood	scientific contribution almost no	relevant arguments/responses too few	reporter's conduct at the discussion	OPPONENT and REVIEWER'S QUESTIONS
5 2	some	some	some	some not well fitting	review of sources, cited some own input	partly average	only technical points cleared	some	poor some aspects fine	concise and correct or no questions asked
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	interesting solution	some scientific	many	good	some incorrect,
4 8 6	detailed demonstrative deep and comprehensible, shows physical insight	quite detailed, correct detailed, complex, completely testable	+ results explained errors analysed + reproducible, convincing analysis	+ theory limits explained, conclusive well fitting, deviations analysed, conclusive	considerable experimental or theoretical considerable experimental and theoretical	some aspects above average greater extent than expected	interesting points discussed brought in new physics	+ data/theory convincingly supported proved deep understanding	some aspects efficient overall efficient	inconclusive or too long deeply incorrect or show deep misconceptions

## OPPONENT 1 + 15 +

3,5+12	\$8

=[6

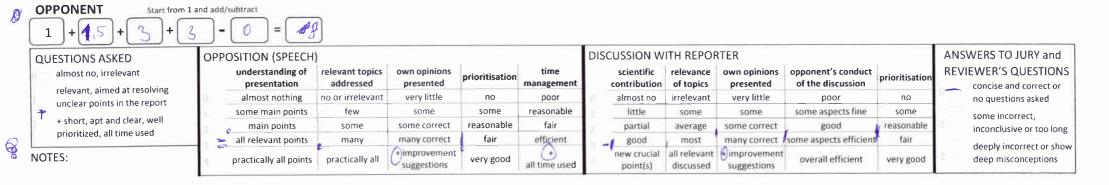
QUESTIONS ASKED	OPP	OSITION (SPEECH)					DISC	CUSSION W	ITH REPOR	RTER			ANSWERS TO JURY and
almost no, irrelevant relevant, aimed at resolving		understanding of presentation	relevant topics addressed	own opinions presented	prioritisation	time management		scientific contribution	relevance of topics	own opinions presented	opponent's conduct of the discussion	prioritisation	REVIEWER'S QUESTIONS concise and correct or
unclear points in the report	0.	almost nothing	no or irrelevant	very little	no	poor	-0.	almost no	irrelevant	very little	poor	no	no questions asked
+ short, apt and clear, well	1	some main points	few	some	some	reasonable	1.	little	some	some	some aspects fine	some	some incorrect,
prioritized, all time used	2	main points	some	some correct	reasonable	fair	200	partial	average	some correct	good	reasonable	inconclusive or too long
phontized, an time used	-	all relevant points	many	many correct	fair	efficient	-	* good	🔪 most	a many correct	some aspects efficient	🧃 fair	-
NOTES:	4	practically all points	spractically all	+ improvement suggestions	very good	+ all time used	.6	new crucial point(s)	all relevant discussed	+ improvement suggestions	overall efficient	very good	deeply incorrect or show deep misconceptions

### REVIEWER Start from 1 and add/subtract 2, 2 + 1.75 -1 1 + +

3.5

QUESTIONS ASKED	REVIE	W OF REPO	RT				REVIEW OF OPPO	OSITION				ANSWERS TO JURY
too few, mostly irrelevant some relevant, sufficient number,		port summary understanding	i pros & cons	discussion analysis	own opinions	prioritisation	speech summary	pros & cons	discussion analysis	own opinions	prioritisation	QUESTIONS concise and correct or
contributed to clarify some unclear points	8	poor	irrelevant	almost no	too few	no	poor	irrelevant	almost no	too few	no	no questions asked
many unclear points resolved; most time	3	partial	partially relevant	too short/long	some	some	too short/long	partially relevant	too short/long	some	some	some incorrect,
used, suitably allotted to Rep & Opp	2 4	good	mostly adequate	relevant parts	many	reasonable	informative, apt	mostly adequate	relevant parts	c many	e reasonable	inconclusive or too long
+ short, apt and clear, well prioritized, time managed efficiently	1	detailed, complex	fully adequate	accurate, conclusive	+ improvement suggestions	- good	condensed and accurate	fully adequate	accurate, conclusive	+ improvement suggestions	good	deeply incorrect or show deep misconceptions

EPOR	<b>TER</b> Start f 4,5 + $3$	from 1 and add/subtra	P	SCORESHI stage: デリハ reporter: PO	-ACI fight (round		room: reviewer: らっル	problem no.:17		Juror's name:PAVX. 0x07 signature:		
EPORT	phenomenon	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	DISCUSSION WITH C scientific contribution		reporter's conduct at the discussion	ANSWERS TO JURY, OPPONENT and		
	explanation almost no	almost no	too few	no/ almost no	others' data, incorrectly cited	misunderstood	almost no	too few	poor	REVIEWER'S QUESTIONS		
	some fair	some fair	some fair	some not well fitting	review of sources, cited some own input	partly average	only technical points cleared	some	some aspects fine	concise and correct or no questions asked		
	good	good	well performed, sufficient number	deviations qualitatively analysed	∋ some interesting results	interesting solution	some scientific points cleared	many	good	some incorrect,		
	detailed demonstrative and comprehensible, ows physical insight		<ul> <li>results explained errors analysed</li> <li>reproducible, convincing analysis</li> </ul>	theory limits explained, conclusive well fitting, deviations analysed, conclusive	considerable experimental <u>or</u> theoretical considerable experimental <u>and</u> theoretical	l some aspects above average greater extent than expected	interesting points discussed brought in new physics	+ data/theory convincingly supported proved deep understanding	some aspects efficient overall efficient	inconclusive or too long deeply incorrect or shor deep misconceptions		



# **REVIEWER** Start from 1 and add/subtract 1 + 2 + 2 (2 5) + (1,75) - 0 = (7,75)

QUESTIONS ASKED	REVIEW OF REPORT						REVIEW OF OPPOSITION					ANSWERS TO JURY
too few, mostly irrelevant		port summary understanding	pros & cons	discussion analysis	own opinions	prioritisation	speech summary	pros & cons	discussion analysis	own opinions	prioritisation	QUESTIONS
some relevant, sufficient number, contributed to clarify some unclear points	0	poor	irrelevant	almost no	too few	no	poor	irrelevant	almost no	too few	no	no questions asked
many unclear points resolved; most time		partial	partially relevant	too short/long	some	some	too short/long	g partially relevant	too short/long	some	some	some incorrect,
<ul> <li>used, suitably allotted to Rep &amp; Opp</li> </ul>	2 6	good	mostly adequate	relevant parts	many	reasonable	👔 🚽 informative, ap	nt mostly adequate	relevant parts	many	reasonable	inconclusive or too long
+ short, apt and clear, well prioritized, time managed efficiently	1	detailed, complex	fully adequate	accurate, conclusive	Gimprovement suggestions	good	condensed and accurate	fully adequate	accurate, conclusive	+ improvement suggestions	good	deeply incorrect or show deep misconceptions

REP	PORTER Start	from 1 and add/subtra		SCORESHE stage: S reporter: G	fight (round		room: problem no.: M reviewer: GTH	Juror's name: 1176 2 toldu signature: Megt.
REPO	ORT						DISCUSSION WITH OPPONENT	ANSWERS TO JURY,
σ	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 misunderstood	scientific relevant reporter's co contribution arguments/responses at the discu almost no too few poor	nduct OPPONENT and
1 2	some fair	some fair	some fair	some not well fitting	review of sources, cited some own input	partly average	only technical some some aspect	
3	good	good	well performed, sufficient number	deviations qualitatively analysed	+ some interesting results	interesting solution	some scientific many good	some incorrect,
D	detailed demonstrative deep and comprehensible shows physical insight	quite detailed, correct detailed, complex, completely testable	+ results explained errors analysed + reproducible, convincing analysis	+ theory limits explained, conclusive well fitting, deviations analysed, conclusive	considerable experimental or theoretical considerable experimental and theoretical	some aspects above average greater extent than expected	interesting points + data/theory some asp discussed convincingly supported efficien brought in new proved deep physics understanding overall efficient	t 👔 📜 deeply incorrect or show

### **OPPONENT** Start from 1 and add/subtract 88 75 3 25 = +1+ 1 **OPPOSITION (SPEECH)** QUESTIONS ASKED DISCUSSION WITH REPORTER ANSWERS TO JURY and almost no, irrelevant understanding of relevant topics own opinions time scientific **REVIEWER'S QUESTIONS** relevance own opinions opponent's conduct prioritisation prioritisation presentation addressed presented management contribution of topics presented of the discussion relevant, aimed at resolving concise and correct or almost nothing no or irrelevant very little no poor almost no irrelevant very little unclear points in the report poor no no questions asked some main points few some some reasonable little some some some aspects fine some 두 short, apt and clear, well some incorrect, main points some some correct reasonable fair partial average some correct good reasonable prioritized, all time used inconclusive or too long all relevant points many many correct fair efficient good most many correct some aspects efficien fair deeply incorrect or show + improvement NOTES: new crucial all relevant + improvement practically all points practically all very good overall efficient very good deep misconceptions suggestions all time used point(s) discussed suggestions Malitative explanation Chuti good & dear opinions Slew much REVIEWER Start from 1 and add/subtract = 1 **REVIEW OF REPORT** QUESTIONS ASKED **REVIEW OF OPPOSITION** ANSWERS TO JURY too few, mostly irrelevant discussion report summary speech discussion QUESTIONS pros & cons own opinions prioritisation pros & cons own opinions prioritisation & understanding analysis summary analysis some relevant, sufficient number, concise and correct or irrelevant almost no too few poor no irrelevant almost no contributed to clarify some unclear points poor too few no no questions asked partial partially relevant too short/long some some too short/long partially relevant too short/long some some many unclear points resolved; most time some incorrect, 🗲 used, suitably allotted to Rep & Opp mostly adequate relevant parts informative, apt mostly adequate relevant parts good many reasonable many reasonable inconclusive or too long condensed fully + short, apt and clear, well prioritized, detailed, fully accurate, accurate, + improvement + improvement deeply incorrect or show good good time managed efficiently complex adequate conclusive suggestions and accurate adequate conclusive suggestions deep misconceptions IYPT - Feb 2018

qualitative

NOTES: