

Scoresheet

Fight (Round no.): _____ Room: _____ Stage: _____ Problem no.: _____

Juror: _____ Signature: _____

A report should include:

- a **presentation** of the appropriate **concepts, theories and principles** of the problem • an **explanation** of the **observed phenomena** • an **application** of **appropriate mathematics** • reasonable **experimental technique** to **gather** and **process data** (or **demonstrate** the **phenomena** if appropriate) • linking of **theoretical** and **experimental findings** • drawing **suitable conclusions** • an attempt to communicate **difficult** or **complex** ideas in an **effective** and **understandable** manner • **task fulfillment** to a reasonable degree (when applicable)

An opposition should show that:

- the opponent **challenged** the **reporter's understanding** of the presented **concepts, theories and principles** • the opponent understood the **appropriate mathematics** presented • the opponent **critiqued** the **experimental technique** used and questioned the **validity** of the **data** • the opponent appreciated and highlighted the **strengths and weaknesses** of the report • evaluated the **task fulfillment** (when applicable)

A review should show that:

- the reviewer succeeded in giving an **objective summary** of the performances the **reporter and opponent** • the reviewer appreciated the **important aspects** (especially the **controversial** ones) • the reviewer's **personal opinion** was in evidence (**not just superficial observations**) • such personal opinions were **informative, non-trivial** and demonstrated, where possible, the reviewer's **understanding of concepts, theories, principles and appropriate mathematics** used by the reporter and the opponent • evaluated the **task fulfillment** (when applicable)

The grade for each of the three teams consists of a partial grade for **physics, presentation** and for their **specific role**. The **reporter, opponent** and **reviewer** each **start with 5 points**. Write your partial grade for each section in the corresponding shadowed box to **add** to or **deduct** from the initial **5 points**.

Don't punish missing 'answers' when no questions were posed or not finding shortcomings if there were none to find.

Rep.: _____

Physics ± 3

- Correct and relevant physics
- Scientific approach
- Validity of conclusions
- Accurate answers

Presentation ± 1

- Clear and understandable
- Appropriate manner
- Overall impression

Reporter ± 1

- Logical structure
- Testing of hypotheses, appropriate models
- Novelty of the report
- Quality of experimental technique(s), errors estimation
- Explanation of formulae and symbols
- Slides, on-site experiments, audio, video, as appropriate
- References, proper citations of ideas and input of others
- Contribution to the discussion
- Solution responded to the task

Opp.: _____

Physics ± 3

- Correct and relevant physics
- Scientific approach
- Validity of conclusions
- Accurate answers, if applicable

Presentation ± 1

- Clear and understandable
- Appropriate manner
- Overall impression

Opponent ± 1

- Response to the reporter's solution
- Shows the strong and weak points of the report
- Finds shortcomings or errors in the report and prioritises them
- Relevance of the questions
- Contribution to the discussion

Rev.: _____

Physics ± 3

- Correct and relevant physics
- Scientific approach
- Validity of conclusions
- Accurate answers, if applicable

Presentation ± 1

- Clear and understandable
- Appropriate manner
- Overall impression

Reviewer ± 1

- Provides a concise and objective review of report, opponent's critical remarks and discussion
- Expresses own opinion about topics presented or discussed
- Relevance of questions to both the reporter and the opponent
- Draws attention to points missed by the reporter or the opponent

This sheet will be collected by the fight assistant, so we can scan it and archive your partial grades – please **do not bend**

Final Grade: Reporter

Final Grade: Opponent

Final Grade: Reviewer