

General instructions: Theoretical Examination (30 points)

The theoretical examination lasts for 5 hours and is worth a total of 30 points.

Before the exam

You must not open the envelopes containing the problems before the sound signal indicating the beginning of the examination.

The beginning and end of the examination will be indicated by a sound signal. There will be announcements every hour indicating the elapsed time, as well as fifteen minutes before the end of the examination (before the final sound signal).

During the exam

- Dedicated answer sheets are provided for writing your answers. Enter the final answers into the appropriate boxes in the corresponding **answer sheet**. For every problem, there are extra blank **work sheets** for carrying out **detailed work**. Always use the work sheets that belong to the problem you are currently working on (check the problem number in the header). If you have written something on any sheet which you do not want to be graded, cross it out. Only use the front side of every page.
- In your answers, try to be as concise as possible: use equations, logical operators and sketches to illustrate your thoughts whenever possible. Avoid the use of long sentences.
- Please give an appropriate number of significant digits when stating numbers.
- You may often be able to solve later parts of a problem without having solved the previous ones.
- A list of physical constants is given on separate page.

You are not allowed to leave your working place without permission. If you need any assistance (need to refill your drinking water bottle, broken calculator, need to visit a restroom, etc.), please draw the attention of a team guide by lifting up one of the three flags into the air ("Refill my water bottle, please", "I need to go to the toilet, please", or "I need help, please" in all other cases).

At the end of the exam

- At the end of the examination you must stop writing immediately.

Theory

English (Official)

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- For every problem, sort the corresponding sheets in the following order: problem sheets, answer sheets, work sheets and scratch paper.
- Put all the sheets belonging to one problem into the same envelope. Also put the general instructions into the remaining separate envelope. Make sure your student code is written on each envelope. Also hand in empty sheets. You are not allowed to take any sheets of paper out of the examination area.
- Leave the calculator provided by the organizers on the table.

