

Project: Improving course content in Classical Mechanics (TFY4345)

Project description: The lecturer needs help in improving the course content of TFY4345 (exercises, computational project, supplemental material). The project considers two parts: First revisiting the model solutions for exercises (new and old ones), improving their flow and correcting bugs, and type-writing the solutions in a uniform format in LaTeX. The current set (8 exercises, 5 assignments) is a mixture of hand-written notes, scans and model solutions from previous years.

The second part considers designing a new computational project (3 parts) for Høst 2020 together with the lecturer. This part includes also preparing supplemental material of an analytical solution for a slightly more complicated problem in using Lagrangian mechanics, namely cylinder rolling on a cylinder.

Qualifications: Course TFY4345 completed with a good grade, proficiency in numerical work, LaTeX

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Deadline: Unspecified