

REGISTRATION TO PHYSICS UNDEGRADUATE PROJECTS

01140229 (4.5 POINTS) or 01140252 (3 Points)

Please fill the information below and fill the form before 30/11/2025 to finalize your registration to the project courses.

All students (01140229 and 01140252) are required to **submit a final written report** on their project.

Students registered to the 01140229 (4.5 point project) will also be required to **give a short presentation** on their research project **at the end of the semester they are registered to the course**. If they are not done with the project at the end of the semester, the presentation will report their progress to date. The date of the presentation will be coordinated with the students (likely in the last two weeks of each semester).

If the project extends beyond the semester in which the student was registered to the project course, the grade will be given when the student finishes the project and submits the written project report.

STUDENT INFORMATION

Student Name: Itai Sitnik

Student ID: 207432949

Undergraduate study program: B.Sc. in Computer Science and Physics

Course registered (3 or 4.5 points): 3 points

Semester/Year registered: Year 5, Semester 9

PROJECT AND HOST LAB INFORMATION

Host lab name: Prof. Amos Yarom

Supervisor(s) (indicate: PI, Postdoc, PhD student, MSc student):

- Mr. Matan Grauer

Project name: Numerical Solutions of Einstein's Equations in AdS Geometry

Relevant reference(s) (list one or more papers that are background material/relevant for the project)

- Black brane steady states - <https://arxiv.org/pdf/1501.01627>
- Numerical solution of gravitational dynamics in asymptotically anti-de Sitter spacetimes - <https://arxiv.org/pdf/1309.1439>

Additional comments:

(None)