STudent REseArch Mobility Programme (STREAM)
Project proposal

Host University:
Utrecht University

Field (drop-down list):
Physics

Specified field, subject:
Experimental high-energy heavy-ion physics

Research project title:
Heavy-quark production

Possible starting month(s):
- Sep
- Oct
- Nov
- Dec
- Jan
- Feb
- Mar
- Apr
- May
- Jun
- Jul
- Aug

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Possible duration in months:
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

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Suitable for students in:
☐ Bachelor level  ☑ Master level

Prerequisites:
Basic Knowledge of Particle Physics and C++ Programming

Description:
Heavy quarks (charm and bottom) are extremely useful tools to test pictures of energy loss and thermalisation in strongly interacting matter. In the project, methods to measure hadrons containing charm and bottom quarks in proton-proton and collisions of heavy atomic nuclei in the ALICE experiment will be studied and optimized and applied to real data. The project is centred around the data analysis using modern computing language C++.

Further information: http://www.staff.science.uu.nl/~misch101/
Faculty and/or Department:
Faculty of Science
Department of Physics and Astronomy

Contact person, including position:
Kim Zunderdorp, coordinator Honours College

Contact email:
honourscollege@uu.nl

Deadline for nomination to reach host university:
April 17th, 2017

Notification of admission given by the end of:
Three weeks after application deadline