

PhD in Astroparticle Physics

The Astroparticle group at SISSA announces the opening of 4 Ph.D. positions for the academic year 2012/2013.

<http://www.sissa.it/app/joinus/joinphd.php>

The positions imply up to four year of PhD fellowship with a net salary of about 1.135 euros/month.

The deadline for application is the mid of July. The exams will take place in SISSA on the 15th-16th of July.

The Ph.D. program, entirely devoted to astroparticle physics, covers a wide spectrum of subjects, including quantum field theory, the standard model of particle interaction, cosmology and gravitation theory, particle and high energy astrophysics. The curriculum consists of 3-4 years of study and research. During the first year, students are offered a number of courses covering a wide spectrum of topics and undergo examination on a selection of them. By the beginning of the second year they undertake a research project under the supervision of one or more Astroparticle Physics staff members. These include, beyond those part of the SISSA faculty, staff from ICTP and the OAT (Trieste Astronomical Observatory).

Students will benefit from the interaction with a group of about 20 students and 3-4 postdocs and about 12 staff members. In addition to this core of people they will get the chance to be exposed to the interaction with the rest of the SISSA students and staff. In particular they will enjoy the local wide expertise in Astrophysics and Particle Physics present in SISSA and other important institutions in the area like ICTP and OAT and INFN. We think that this stimulating environment makes a PhD at SISSA in Astroparticle Physics a very special opportunity for people seeking the possibility to be endowed with an uncommonly broad knowledge and to apply it to the forefront of the most daunting questions in modern physics.

The main research lines include:

Classical and Quantum gravity

Particle Astrophysics

The Dark Universe

Theoretical Cosmology

Additional information about the courses and the research activity can be found at: <http://www.sissa.it/app/>