



SISSA ELEMENTARY PARTICLE

PhD Fellowship at SISSA

The International School for Advanced Studies (SISSA) welcomes applications for 5 PhD fellowships in Theory of Elementary Particles.

The International School for Advanced Studies (SISSA) is a leading research and training institution in Italy. Elementary Particle Theory, or Theory of Fundamental Interactions, is traditionally one of the principal teaching and research field in SISSA. Its aim is to study and develop theories and models devoted to the understanding and unification of the four fundamental interactions in Nature. Since the birth of SISSA a PhD Program is entirely dedicated to the training on this field. The curriculum consists of 3-4 years of study and research. During the first year the students are offered a number of courses covering a wide spectrum of topics. The students have to select a subset of them and pass the relevant exams within the first year. By the beginning of the second year they have to undertake a research program under the supervision of one or more docents. The main research lines are: Physics at the LHC, Physics Beyond the Standard Model, Neutrino Physics, String and Brane Theories, Quantum Field Theory of Gravity. Students will benefit from the rich environment of scientific institutions, such as the International Center for Theoretical Physics (ICTP), the Physics Department of the University of Trieste and the Istituto Nazionale di Fisica Nucleare (INFN).

A student fellowship entitles to a salary plus various contributions for house renting, health insurance and purchase of a laptop.

The students are selected through a written and oral exam, which will take place on July 18-19, 2012 at SISSA, Via Bonomea 265, Trieste (Italy). Applications should reach SISSA by July 9, 2012. Candidates are entitled to contributions to their travel expenses. Application forms and additional information can be found on the web page: http://www.sissa.it/main/?p=COURSES_PHD_C2

A number of short fellowships will be available for students who wants to participate in the entrance exam, entitling them to a stay before the exam in order to familiarize them with SISSA and its environment. Application forms and additional information can be found in the webpage: http://www.sissa.it/main/?p=A3_B4&what=tba