

FNHP2018

Frontiers in Nuclear and Hadronic Physics

School of the Galileo Galilei Institute for Theoretical Physics

Florence, February 26 - March 9, 2018

The school is primarily addressed to Ph.D. students in Theoretical Nuclear and Hadronic Physics. Participation of experimentalists and post-docs is also encouraged. The 2018 edition will be devoted to Nuclear Physics, providing a pedagogical introduction to the basic concepts and tools needed for carrying out research in nuclear structure, nuclear reactions and nuclear astrophysics. The lectures will emphasize the intimate connections among these fields, giving much attention to the interpretation of experimental data. Various theoretical frameworks for the study of nuclear systems will be presented, including both ab initio and more phenomenological approaches.

Four one-hour lectures will be scheduled each morning, for a total amount of about forty hours, over two weeks. Presentations will be given on the blackboard, with the support of slides. The afternoon will be devoted to exercises, study, and discussions with lecturers and senior participants. Some seminars, mostly by experimentalists, will also be organized. A desk and standard research facilities will be provided to all participants.

The school can admit up to forty participants and no admission fee is requested. Financial support for accommodation expenses may be provided, upon request, for a number of selected participants.

LECTURERS

Francisco Barranco, University of Sevilla: ***Many-body theory and low energy spectroscopy***

Horst Lenske, University of Giessen: ***Theory and applications of nuclear direct reactions***

Gabriel Martinez Pinedo, Technical University, Darmstadt: ***Stellar nucleosynthesis***

Petr Navratil, TRIUMF, Vancouver: ***Ab initio methods in nuclear physics***

Cedric Simenel, Australian National University, Canberra: ***Microscopic dynamical approaches to nuclear reactions***

Application
Deadline

15 December 2017

ORGANIZERS

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About admission, accommodation, and practical information:

<http://www.fnhp-school.mi.infn.it>