

HYBRID WORKSHOP

Nuclear Physics at the edge of stability

Trento, 4 – 8 July 2022

The physics at the edge of the nuclear stability is a multifaceted domain ranging from the cleanest emergence of few-body physics from a set of many interacting nucleons to the complicated evolution of nuclear shells, clustering, evolution of nuclear superfluidity at the drip line as well as abrupt changes in reaction cross sections. This broad topic has strong connections to nuclear astrophysics, other open quantum systems and to the universal treatment of few-body systems. Specifically, we plan to review which phenomena are specific to nuclear physics, establish a baseline for the field, and provide, in the future and with the help of the participants/community, propositions for experimental tools and theoretical models to be developed.

Organizers

Guillaume **Hupin** (JIClab, France), Olivier Sorlin (GANIL, France), Lucas **Platter** (UTK, US), Alexandra **Gade** (NSCL, US)

Speakers

H. Sagawa (Aizu University), N. Michel (CAS), W. Nazarewicz (MSU, D). Lee (MSU), J. Zenihiro (Kyoto University), H. Arellano (University de Chile), D. T. Son (University of Chicago), S. Ishikawa (Hōsei), A. Volya (FSU), G. Rogachev (Texas A&M), J.-P. Linares (GANIL), J. Giovinazzo (LP2I-Bordeaux), Y. Ayyad (USC), J. Beugnon (LKB), A. Tononi (LPTMS), C. Mazzocchi (Warsaw University), B. Charity (Wash. University St Louis), S. Koyama (GANIL), H. Fynbo Aarhus University, L.-P. Kubushishi (University of Mainz), M. Gennari TRIUMF, R. Lazauskas (IPHC), A. Obertelli (TUD), C. Bertulani (Texas A&M), E. Hiyama (Kiushu University), M. Caamaño (USC), C. Lenain (CEA), M. Duer (TUD), B. Monteagudo Godoy (MSU), P. Andre (CEA), T. Nakamura (Titech), F. Nowacki (IPHC).

Director of the ECT*: Professor Gert Aarts

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