



## GANIL Topical Meeting

«Nuclear Structure and Reactions for the 2020s»

GANIL, Caen, France, July 2-6, 2018

### First circular

Tremendous progress has been made in the last quarter of a century in advancing our microscopic understanding of nuclear structure and reactions, involving few nucleon systems. So many of the new challenges lie in extending these successes to medium and heavy mass nuclei and/or in developing entirely new techniques. Current work with the Coupled Cluster approach, the In-Medium Similarity Renormalization Group and the Monte Carlo Shell Model, for example, have had considerable successes but new techniques which includes effect of the continuum, e.g. the Gamow Shell Model, etc., and quantum computing, offer entirely new possibilities.

Thus, in the spirit of our previous workshops, we want to bring together nuclear physicists, both theorists and experimentalists, who have interests, from the nature of the Nucleon-Nucleon and Three-Nucleon Interactions to Nuclear Many-Body Theories and Applications and from the latest experimental discoveries to exciting and innovative new approaches for solving nuclear physics problems for structure and reactions.

There will be only several talks per day, allowing adequate time for questions and discussions and for formulating and beginning new collaborations. We would like to keep the format of the meeting informal and invite those participants who believe they can contribute to the discussion to contact Marek Ploszajczak at [ploszajczak@ganil.fr](mailto:ploszajczak@ganil.fr) or Bruce R. Barrett at [brbarret@email.arizona.edu](mailto:brbarret@email.arizona.edu).

The workshop will be held at GANIL in Caen, France, July 2-6, 2018, and would serve as a satellite meeting to the large conference on Few-Body Problems in Physics (FB22) (<https://fb22-caen.sciencesconf.org/>) being held in Caen, July 9-13, 2018. Besides a series of relatively-short daily talks centered on a theme, there will be adequate Q&A time after talks and during a daily "wrap-up" discussion session.

At present the list of speakers include:

T. Abe (Univ. of Tokyo), M. Caamano Fresco (Univ. of Santiago da Compostela),  
J. Carbonell (SPhN Saclay), Th. Duguet (SPhN Saclay), Ch. Elster (Ohio Univ.),  
A. Gade (MSU), D. Gazit\*(Racah Inst. Of Physics), B. Giraud\*(Saclay), J. Holt (TRIUMF),  
A. Idini\* (Lund Univ.), N. Itaco (Univ. of Napoli), C. Johnson (San Diego State Univ.),  
P. Magierski (Tech. Univ. Warsaw), M. Marquez (LPC Caen),  
A. Mercenne (Louisiana State Univ.), W. Nazarewicz (Michigan State Univ.),  
Th. Neff (GSI Darmstadt), T. Otsuka (Univ. of Tokyo),  
R. Skibinski (Jagiellon Univ. Krakow), N. Smirnova (CENBG Bordeaux),  
O. Sorlin\* (GANIL), P. Van Isacker (GANIL), A. Volya (Florida State Univ.),  
Furong Xu (Univ. of Beijing)

The list of speakers is open and will be given in the second circular. The program of the meeting will be announced in the Second Circular, issued around June 15.

To register for the meeting, please fill in the registration form. We are asking even those holding a GANIL badge to register so that an accurate count can be obtained for the coffee breaks.

Partial support will be available for workshop participants. In this regard, please contact the organizers. The information to reach GANIL can be obtained at the address:

<http://pro.ganil-spiral2.eu/users-guide/users-office/how-to-reach-ganil>

If you have any question concerning your arrival and stay in Caen, or your participation in the meeting, please do not hesitate to contact Marek Ploszajczak.

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Marek Ploszajczak, GANIL, <ploszajczak@ganil.fr>