

the main tool to measure the charge radius and electromagnetic moments of few- and many-nucleon systems, including exotic ones. Nuclear theory has parallelly undergone a number of important developments: Our knowledge of the many-body nuclear Hamiltonian and electroweak currents has dramatically improved while at the same time quantum many-body calculations have reached a wide range of nuclei and a variety of nuclear properties. This workshop will focus on the interplay between experiment and theory in both atomic, molecular and nuclear physics, explore the potential for further developments in experiment and theory that can provide insights into the structure of the nuclear interaction and the coupling of nuclei to external probes. Moreover, a robust and solid understanding of nuclear structure and dynamics will enable the identification of new physics in future experiments.

Organizers

Lucas **Platter** (University of Tennessee, Knoxville/US), Ronaldo **Garcia** (Massachusetts Institute of Technology, Cambridge/US), Chen **Ji** (Central China Normal University, Wuhan/CN), Saori **Pastore** (Washington University, Washington/US)

Key Speakers

Robert Berger (PU Marburg), Anastasia Borschevsky (U Groningen), Ruben DeGroote (KU Leuven), Jordy de Vries (Amsterdam U), Jacek Dobaczewski (Univ. of York), Gordon Drake (Windsor U), Jon Engel (UNC), Kieran Flanagan (Manchester U), Heiko Hergert (MSU), Nick Hutzler (CalTech), Simone Li Muli (Mainz U), Emanuele Mereghetti (LANL), Kei Minamisono (MSU), Wilfried Nörtershäuser (TU Darmstadt), Krzysztof Pachucki (Warsaw U), Maria Piarulli (Washington U), Randolf Pohl (Mainz U), P.G. Reinhard (Erlangen U), Marianna Safronova (U Delaware), Wei Sun (CAS-APM), Silviu Udrescu (MIT)

Director of the ECT*: Professor Gert Aarts

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For the organization please contact: Susan Driessen – ECT* Secretariat - Villa Tambosi - Strada delle Tabarelle 286 | 38123 Villazzano (Trento) – Italy | Tel.:(+39-0461) 314722, E-mail: driessen@ectstar.eu or visit <u>http://www.ectstar.eu</u>