

Hybrid workshop

Advances on Giant Nuclear Monopole Excitations and Applications to Multi-messenger Astrophysics

July 11-15, 2022

Main topics

- Precision measurements and their interpretation
- Measurements in unstable nuclei with active targets
- Soft monopole modes
- Monopole – Quadrupole coupling
- Links with multi-messenger astrophysics
- Future experimental and theoretical avenues

Organizers

Yorick **Blumenfeld** (IJCLab, F)
Gianluca **Colò** (University of Milano and INFN, Milan/I)
Umesh **Garg** (University of Notre Dame, Notre Dame/US)
Elias **Khan** (IJCLab, Orsay/F)
Marine **Vandebrouck** (DPhN - CEA, Saclay-Paris/F)

Key speakers

B. **Agarwal** (Saha Institute, Kolkata, India), T. **Ahn** (University of Notre Dame, USA), S. **Bagchi** (Indian Institute of Technology, Dhanbad, India), A. **Bahini** (IThemba Labs, South Africa), L. **Batail** (ULB Brussels, Belgium), A. **Bauswein** (GSI, Germany), M. **Chamseddine** (IP2I Lyon, France), A. **Fantina** (GANIL, France), D. **Gambacurta** (INFN Catania, Italy), E. **Khan** (IJCLab, Orsay, France), M. **Kimura** (Hokkaido University, Japan), B. **Li** (Texas A & M University-Commerce, USA), E. **Litvinova** (Western Michigan University, USA), J. **Margueron** (IP2I, Lyon, France), S. **Ota** (RCNP, Osaka, Japan), A. **Pastore** (CEA Cadarache, France), S. **Péru** (CEA, DAM, DIF, Bruyères-le-Chatel, France), J. **Piekarewicz** (Florida State University, USA), A. **Porro** (DPhN, CEA Saclay, France), R. **Raabe** (KU Leuven, Belgium), A. **Steiner** (University of Tennessee, USA), D. **Thisse** (DPhN CEA Saclay, France), L. **Usman** (Witwatersand University South Africa), K. **Yoshida** (University of Kyoto, Japan), Y. **Zamora** (FRIB, MSU, USA)

Director of the ECT*: Professor Gert Aarts

The ECT* is part of the Fondazione Bruno Kessler. The Centre is funded by the Autonomous Province of Trento, funding agencies of EU Member and Associated states, and by INFN-TIFPA and has the support of the Department of Physics of the University of Trento. 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 <http://www.ectstar.eu>