

# Giant and soft modes of excitation in nuclear structure and astrophysics

**Trento, October 24-28, 2022**

## Objectives:

- Soft and giant modes: correspondences and differences
- Experimental methods and theoretical challenges
- Anharmonicities and spectral distributions
- Soft and giant modes in deformed nuclei
- Spin modes and magnetic response
- Soft and giant beta-decay modes
- Nuclear dipole modes, neutron skins, and symmetry energy
- Low energy excitations and nucleosynthesis

## Organizers

Elena LITVINOVA | Western Michigan University (USA)

Horst LENSKE | Institute for Theoretical Physics, University of Giessen (D)

## Key Speakers

Sonia BACCA, Mikael FROSINI, Danilo GAMBACURTA, Stephane GORIELY,  
František KNAPP, Edoardo LANZA, Nils PAAR, Panagiota PAKONSTANTINO,  
Jorge PIEKAREWICZ, Peter RING, Xavier ROCA-MAZA, Hiroyuki SAGAWA, Kamila SIEJA,  
Mark-Christoph SPIEKER, Atsushi TAMII, Nadezhda TSONEVA, Peter von NEUMANN-  
COSEL, Herlik WIBOWO, Andreas ZILGES

## Director of the ECT\*: Professor Gert Aarts

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