

Preface

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The COMEX conferences are a continuation of the long series of topical conferences on giant resonances started in 1979. The new name was adopted in 2003 when it was clear that more excitation modes could be investigated with the advent of facilities producing nuclei far from the stability line. The first COMEX conference was held in Paris (France) in 2003 and thereafter in Sankt Goar (Germany) in 2006, in Mackinac Island (Michigan, USA) in 2009, in Kanazawa (Japan) in 2012, in Krakow (Poland) in 2012 and in Cape Town (South Africa) in 2018. The 7th edition of the COMEX conference was supposed to take place in 2020 but it was postponed due to the Covid-19 pandemic.

The 7th International Conference on Collective Motion in Nuclei under Extreme Conditions (COMEX7) was held in Catania, Italy, at the Dipartimento di Fisica e Astronomia “Ettore Majorana” of Catania University, from June 11 to June 16, 2023. The conference was an in-person event and it was hosted by the Istituto Nazionale di Fisica Nucleare, Sezione di Catania and Sezione di Milano in collaboration with the Università degli Studi di Milano and the Dipartimento di Fisica e Astronomia “Ettore Majorana” of Catania University.

The topics of COMEX7 were in line with previous editions: Giant resonances in cold and hot nuclei, Collective and new excitation modes in nuclei, Spin and isospin modes, Clustering and pairing effects in excitations, Studies of the decay of highly excited states, Collective excitations and the nuclear equation of state. A short session dedicated to Applications in astrophysics, and one to Novel instrumentations and methods was also organised. The Conference COMEX7 was attended by 98 delegates. With the help of the International Advisory and Local Committees the program was formed by 30 invited-speakers talks and 38 oral contributions. The 10 posters had a dedicated session with a 5 minutes oral presentation each and a written contribution of 2 pages length. Overall the high quality talks were instrumental for extended and lively discussion among the participants. However, not all presentations provided a written contribution, as some of the presented results were preliminary or have been recently published.

The first talk of the conference was in memory of Ricardo A. Broglia and Peter Schuck for their fundamental and important contribution to Nuclear Physics. Marcello Baldo from INFN, Sezione di Catania, who had the privilege to know them both, briefly described their scientific life underlining their seminal works in the various fields of Nuclear Physics.

The International Advisory Committee decided that COMEX8 will be organised by the Florida State University at Tallahassee (Florida) in 2025.