

Preface

This volume collects all the contributions given at the first “IWM-EC” International Workshop on Multi facets of EoS and Clustering, held at Dipartimento di Fisica e Astronomia and Laboratori Nazionali del Sud in Catania, Italy from May 6 to May 9, 2014. Also in this occasion the tradition to host the meeting at an advanced nuclear research Laboratory and University campus was a key aspect for the success of the event.

The workshop, organized within the framework of the CHIMERA and INDRA Collaborations, is a renewed edition of the successful IWM workshop organized every two years starting from 2001, whose 10th anniversary was celebrated at GANIL - Caen in 2011 edition.

The program covered a wide range of topics on nuclear reactions: clustering and structures of unbound states, properties of hot nuclei, multifragmentation phenomena and liquid-gas phase transitions, isospin dependence of nuclear equation of state, developments and methods in data analysis and detectors and related applications. Some of these were already present in previous IWM editions, standing for the connection and continuity, while others topics have been introduced, that reflect the current and future interest in the field of the Heavy-Ions nuclear physics. Subjects including experimental and theoretical aspects by using radioactive beams have also been extensively treated.

A short section at the end of the Workshop was devoted to identify and elucidate new directions of developments in our field and their connections with astrophysical phenomena and exotic decays.

Around 120 physicists from many countries were involved with a large contribution of young researchers and graduate students, confirming the already consolidated success and interest of these series of meetings among researchers working in the community of Heavy-Ions physics. Twelve invited general talks, about 30 oral presentations and 20 posters were presented. The workshop was the occasion of promoting enhanced research collaborations with particular emphasis for future developments and perspectives.

The enthusiasm of young researchers and the interesting discussions open on the future push the community to continue on this road.

The Editorial Committee