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Proceedings of the "IWM-EC2014 International Workshop on Multi facets of EoS and Clustering"
edited by B. Borderie, R. Bougault, A. Pagano, S. Pirrone and G. Politi
This volume collects all the contributions of the first IWM-EC International Workshop, held at Dipartimento di Fisica e Astronomia and Laboratori Nazionali del Sud in Catania, Italy from May 6 to May 9, 2014, and organized within the framework of the CHIMERA and INDRA Collaborations as a renewed edition of the IWM Workshop.
The programme covered a wide range of experimental and theoretical topics on nuclear reactions, like properties of hot nuclei, liquid-gas phase transitions, isospin dependence of nuclear equation of state, clustering and structures of unbound states, connection with astrophysical phenomena and exotic decays and developments in data analysis and detectors, to be studied with stable and radioactive beams. Some of these subjects were already present in previous IWM editions, while some others have been introduced to follow the present and future interest in the field of heavy ions nuclear physics.

Proceedings of "Les Rencontres de Physique de la Vallée d'Aoste – Results and Perspectives in Particle Physics"
edited by Mario Greco
The 2014 Rencontres de Physique de la Vallée d’Aoste were held at the Planibel Hotel of La Thuile, Aosta Valley, on February 23rd-March 1st, with the twenty-eighth edition of “Results and Perspectives in Particle Physics”. The physics programme included various topics in particle physics, also in connection with present and future experimental facilities, as cosmology and astrophysics, neutrino physics, CP violation and rare decays, electroweak and hadron physics with $e^+e^-$ and hadron colliders, Higgs physics, heavy flavours, search for new physics and prospects at future facilities.

Parity violation in electron scattering
G. M. Urciuoli
A review of the experiments that measured the Parity Violating asymmetry in electron scattering is given. A description of the experimental apparatus and of the employed techniques as well as of the goals achieved is given for each experiment. The most important experiments that in the near future will perform Parity Violating asymmetry measurements and the physics fields interested by them (above all the search for physics Beyond the Standard Model) are provided.

EPJ E – Recent Highlights
Optically driven oscillations of ellipsoid particles. Part I: Experimental observations
by B. M. Mihiretie, P. Snabre, J. C. Loudet, B. Pouligny
Optically driven oscillations of ellipsoidal particles. Part II: Ray-Optics calculations
by J. C. Loudet, B. M. Mihiretie, B. Pouligny
Manipulation of small objects by light has gained in popularity in the past few years. Now, scientists have performed the first systematic analysis of the behaviour of ellipsoidal particles manipulated by laser beams. The work shows that such particles are constantly moving in and out of the reach of an optical beam, creating oscillations.
Read more

Buckling along boundaries of elastic contrast as a mechanism for early vertebrate morphogenesis
by Vincent Fleury, Nicolas R. Chevalier, Fabien Furfaro et Jean-Loup Duband
A simple physical mechanism that can be assimilated to folding, or buckling, means that an unformed mass of cells can change in a single step into an embryo organized as a typical vertebrate. This is the main conclusion of work by a team involving physicists from the Laboratoire Matière et Systèmes Complexes (CNRS/Université Paris Diderot) and a biologist from the Laboratoire de Biologie du Développement (CNRS/UPMC).
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