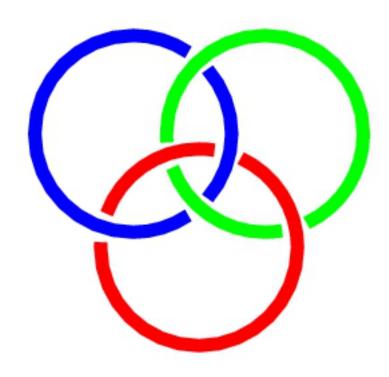
Critical stability



lundi 13 octobre 2008 - vendredi 17 octobre 2008 Ettore Majorama Centre for Scientific Culture

Programme Scientifique

The program will consist of 30' talks, followed by 10' discussion

Speakers and titles

- R. Alvarez-Rodriguez, Three-body decays of many-body resonances,
- *Edward A.G. Armour (Nottingham), Binding in some few-body systems containing antimatter,
- *Paolo Barletta (Pisa), Scattering states of three-body systems with the Hyperspherical Adiabatic method,
- *Vladimir Belyaev (Dubna), New nuclear three-body clusters φ NN,
- *Dario Bressanini (Como), Boundary-condition-determined wave functions, and their nodal structure, for few-electron atomic systems,
- R. Brummelhuisn Relativistic hydrogen atom in strong magnetic fields,
- *Georg M. Bruun (Nordita), Feshbach resonances in ultracold atomic gases,
- *Arnas Deltuva (Lisbon), Challenges and achievements in the ab-initio three- and four-body scattering calculations: the Coulomb force,
- *Jose d'Incao, Few-body physics in ultracold gazes: the role of Efimov physics,
- *Pierre Duclos (Toulon and Marseille): Can one bind three electrons with a single proton?
- *Martial Ducloy (Paris-13):The physics of long-range atom-surface interactions and its applications,
- *Nils Elander (Stockholm):The driven Schrödinger approach to quantum scattering calculations,

- *Charlotte Elster (Ohio), Poincaré Invariant Three-Body Scattering,
- *Dmitri Fedorov (Aarhus), On the detremination of the parameters of quantum resonances,
- *Francesca Ferlaino (Innsbruck), Few-body physics with ultracold Cs atoms and molecules,
- *Christian Forssen (Chalmers), The ab initio no-core shell model,
- *Tobias Frederico (Soa Paulo, Brazil), Virtual states, halos and resonances in three-body atomic and nuclear systems,
- *Avraham Gal (Jerusalem), Few-Body Approaches and Problems in Hypernuclei,
- *Edourado Garrido (SCIC, Madrid), Few-body reactions in nuclear astrophysics problem,
- *Mario Gattobigio (INLN, France) The Hyperspherical Harmonic method for a A-body system without permutation symmetry,
- *Tomas Gonzalez-Lezana (Madrid), Theoretical investigation of the spectra of rotating trimers by means of a variational quantum method based in distributed Gaussian functions,
- *Sergy Yu. Grebenshchikov (MPI, Goettingen), Highly excited bound states and near-threshold resonances in ozone isotope effect,
- *Dima Gridney, Behavior of wave functions near the thresholds,
- *Alain Joye (Grenoble), A Mathematical Theory for Vibrational Levels Associated with Hydrogen Bonds,
- *Robin Kaiser, Multiple scattering of light in cold atoms: from light localisation to plasma physics,

- *Oleg Karttavtsev, Consistent α-cluster description of the Hoyle state in 12 C,
- *Alejandro Kievsky, Three-body force effects in few-nucleon systems,
- *Elena Kolganova (JINR, Russia), Nuclear and molecular scattering processes,
- *Pavel Kurasov, How to model p-scattering using point interactions and related three-body problems,
- *Joe Macek (U. Tennessee), Multiparticle interactions of zero-range potentials,
- *Miguel Marques (LPC, Caen and GANIL), Light nuclei in the continuum,
- *André Martin (CERN), Welcome address,
- *Indranil Mazumdar (Tata Institute, India), Efimov Effect in 2-Neutron Halo Nuclei,
- *Thomas Neff (GSI), Microscopic Description of Few-Body Systems in the Fermionic Molecular Dynamics Approach,
- *Anna Okopinska (Kielce, Poland), Two-boson correlations in various one-dimensional traps,
- Luca Platter (Ohio), Universality in low-energy few-body systems and leading corrections,
- *Stephanie Reimann (Lund), Quantum dots and/or Bose-Einstein condensates,
- Jean-Marc Richard (Grenoble, France), Proof of stability of tetraquarks in a minimal-path model of linear confinement,
- *Kamal Seth (Northeastern), A journey through exotica in hadronic physics,

*Javier Vijande (Valencia), Four-quark stability,

*Pablo Villareal (Madrid), Spin solvent effects in doped helium clusters: A microscopic manifestation of superfluidity,

*Michele Viviani (Pisa), Four-body nuclear systems,

M.V. Volkov (Stockholm), Solving the Coulomb scattering problem without using Coulomb functions,

*Holger Walkens (Groningen), Theory of Classical and Quantum Reaction Dynamics in Multidimensional Systems,

*Eberrhard Widmann (Vienna), Experimental low energy antiproton physics,

*Slawomir Wycech (Warsaw), Variational calculations for K-few-nucleon systems,

Talks at Critical Stability V (Erice, October 2008)

Here are stored the talks to be given at the Worskhop.