



Non-equilibrium Dynamics

31 August - 3 September, 2011, Heraklion, Crete, Greece

The International Symposium on **Non-equilibrium Dynamics (NeD-2011)** will be held from 31 August to 3 September, 2011, in Heraklion, Crete, Greece.

The Symposium addresses the physics of strongly interacting systems far from equilibrium and their approach to equilibrium as relevant for the dynamics of the early universe and ultra-relativistic nucleus-nucleus collisions. The main focus is on the basic dynamical description of strongly interacting systems, in particular on approaches based on Kadanoff-Baym equations. Other key topics include: transport models in phase space and their numerical realizations, comparison of descriptions based on kinetic equations and viscous hydrodynamics; the description of the parton-hadron phase transition within different concepts, i.e. hadron freeze-out or dynamical approaches on the basis of Kadanoff-Baym equations. Here in particular the differences between hadronization in vacuum and in cold nuclear matter will be confronted with hadronization concepts in hot and dense systems, e.g. statistical hadronization and coalescence models of different sophistication.

Topics:

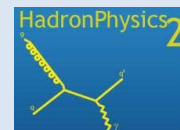
- dynamical description of strongly interacting systems
- Kadanoff-Baym equations and solutions
- transport models for strongly interacting systems
- description of phase transitions
- viscous hydrodynamics



Organizers:

Elena Bratkovskaya (ITP & FIAS, Frankfurt U.) - Chair
Marcus Bleicher (ITP & FIAS, Frankfurt U.) - Chair
Joerg Aichelin (SUBATECH, Nantes)
Igor Mishustin (FIAS, Frankfurt U.)

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The Symposium venue and accommodation of participants will be at the 'Candia Maris Resort & Spa Crete' in Heraklion.

