The “Workshop on Conservative Dynamics and Lagrangian Systems”, held at IMPA, Rio de Janeiro, August 15th - 19th, 2005, was a small meeting joining a number of experts on Conservative Dynamics and Lagrangian systems, and a satellite workshop to the International Congress on Dynamical Systems.

It covered several topics related to the Dynamics and Geometry of Conservative and Lagrangian systems, especially:
- Aubry-Mather theory
- Solutions and subsolutions of the Hamilton-Jacobi equation
- Floer homology
- Symplectic Geometry
- Contact Geometry

Organizing Committee:
Marcelo Viana, IMPA
Leonardo Macarini, UFRJ

Invited Speakers
Albert Fathi (ENS-Lyon)
Artur Lopes (UFRGS)
Clodoaldo Ragazzo (USP)
Diogo Pinheiro (Warwick)
Enrique Bursztyn (IMPA)
Eugene Gutkin (IMPA)
Felix Schlenk (Leipzig)
Gabriel Paternain (Cambridge)
Gonzalo Contreras (CIMAT)
John Mather (Princeton)
Karl Siburg (Bochum)
Leonid Polterovich (Tel Aviv)
Mario Jorge Dias Carneiro (UFMG)
Patrick Bernard (Grenoble)
Rafael Ruggiero (PUC-RJ)
Renato Iturriaga (CIMAT)

In what follows we describe the scientific activities held in the event:
- **Contact non-squeezing at the quantum scale**
  Leonid Polterovich
- **Variational and topological properties of invariant two dimensional tori**
  Mario Jorge Dias Carneiro
- **Some plane-fields related to vector fields on 3-manifolds**
  Clodoaldo Ragazzo
• Fiberwise volume growth via Floer Homology
  Felix Schlenk
• Arnold’s diusion and weak KAM theory
  P. Bernard
• Mather measures for the geodesicflow inconstant negative curvature and the bowen-series transformation
  Artur Oscar Lopes
• Interaction of two charges in a magnetic field
  Diogo Pinheiro
• Calabi Quasi-Morphism on Higher Genus Surfaces
  Pierre Py
• Rigididity of surfaces whose geodesic flows preserve smooth codimension one foliations
  Rafael Ruggiero
• Poincare’s second species orbits
  Robert Mackay
• Connecting Geodesics for locally symmetric spaces
  Eugene Gutkin
• Quasi-Hamiltonian Geometry
  Henrique Bursztyn
• Minimization and hyperbolicity
  Gonzalo Contreras
• Large deviation for equilibrium states of Holder potentials at zero temperature
  Alexandre Tavares Baraviera
• Chain recurrence and Aubry sets
  Albert Fathi