

GEOMETRIC MECHANICS ANT ITS APPLICATIONS

Organizers : James Montaldi, Juan-Pablo Ortega, Tudor Ratiu, Mark Roberts

MASIE July 12. - to July 16., 2004

Speakers	Title	Day	schedule
Juan Pablo Ortega	Momentum maps, reduction, and stratifications in symplectic and Poisson manifolds	12.07.04	09.00 - 09.50
Claudia Wulff	Hamiltonian relative equilibria and relative periodic orbits : Bifurcations and numerics	12.07.04	10.20 - 11.10
George Patrick	Stability of relative equilibria	12.07.04	11.10 - 12.00
Victor Planas	Asymptotic and Laypunov stability of Poisson equilibria	12.07.04	14.00 - 14.40
Fethi Grabsi	Bifurcation and forced symmetry breaking in Hamiltonian systems	12.07.04	14.40 - 15.20
Razwan Tudoran	Symmetry breaking for toral actions in simple mechanical systems	12.07.04	16.00 - 16.40
Andrea Giacobbe	Defects in the quantum swing spring	12.07.04	16.40 - 17.20
Eugene Lerman	Contact toric manifolds	13.07.04	09.00 - 09.50
Gregor Tanner	Five ways to get stuck in a triple collision	13.07.04	10.20 - 11.10
Liviu Ornea	Reduction of locally conformal Kaehler and related structures	13.07.04	11.10 - 12.00
Oana Dragulete	Regular and singular reduction in contact geometry.	13.07.04	14.00 - 14.40
Miguel Olmos	Stability of singular relative equilibria in simple mechanical systems	13.07.04	14.40 - 15.20
Konstantinos Efstathiou	Hamiltonian Hopf bifurcation of the hydrogen atom in crossed fields	13.07.04	16.00 - 16.40
Thomas Sauvaget	Classical Dynamics and Semiclassical Quantization of the Hydrogen Molecule	13.07.04	16.40 - 17.20
Jürgen Scheurle	Dynamical aspects of shape memory alloys	14.07.'04	09.00 - 09.50
Henk Broer	Geometry of resonance tongues	14.07.04	10.20 - 11.10
Jeroen Lamb	Time-reversal symmetry: no turning back	14.07.04	11.10 - 12.00
Gianne Derks	A numerical framework to study instability and edge bifurcations of solitary waves	14.07.04	09.00 - 09.50
Yoshiaki Maeda	Reductions for $Sp(n, \mathbb{C})$	15.07.04	10.20 - 11.10
Manuel de Leon	Lagrangian submanifolds and dynamics on Lie algebroids	15.07.04	11.10 - 12.00
Petre Birtea	Controllability of Poisson systems	15.07.04	14.00 - 14.40
Delia Ionescu	Birkhoffian formulation of the dynamics of electrical circuits	15.07.04	14.40 - 15.20
Arturo Ramos	Rank-two Poisson structures for reduced non-holonomic systems	15.07.04	16.00 - 16.40
Cristina Stoica	Relative Equilibria in Mechanical Systems with Isotropy	15.07.04	16.40 - 17.20
Arjan van der Schaft	Composition of Hamiltonian systems	16.07.04	09.00 - 09.50
Guido Blankenstein	Regular and singular reduction of implicit Hamiltonian systems	16.07.04	10.20 - 11.10
Tien Zung	Singularities of integrable Hamiltonian systems in finite and infinite dimensions	16.07.04	11.10 - 12.00
Florin Diacu	Saari's Conjecture	16.07.04	14.00 - 14.50
Boris Zhilinskii	New mathematical tools for qualitative study of quantum molecular systems : quantum monodromy and topological invariants	16.07.04	14.50 - 15.40
Tadashi Tokieda	Nice Vortices on Naughty Surfaces	16.07.04	16.00 - 16.50

