Session 11, Control and Geometric Mechanics

Wednesday 18, Room 202

15:30 - 16:00	Flagellar motion via geometric mechanics	
16:00-16:30	Cartan's approach applied to nonholonomic mechanics	
	Kurt Ehlers	
16:30-17:00	Nonholonomic systems with symmetry: Some recent results	
	and open questions	
17.20 18.00	Contan forms for first order constrained variational problems	
17.50-18.00	Pedro Luis García Pérez	
18:00-18:30	Geometry of optimal control for PDEs	
	Carlos López Lacasta	
18:30 - 19:00	Homogeneous Lagrangian systems	
	David Saunders	
Thursday 19, Room 202		
11:30-12:00	Planar propulsion through the manipulation of circulatory	
	flows	
	Scott Kelly	
12:00-12:30	The role of controllability in motion planning for affine connec-	
	tion control systems	
	Andrew Lewis	
12:30-13:00	Control and kinematical systems	
	Miguel-C. Muñoz-Lecanda	
13:00-13:30	Trajectory design for mechanical control systems: from geom-	
	etry to algorithms	
10.00 10.00	Francesco Bullo	
16:00-16:30	Quantum optimal control on a compact Riemann manifold with	
	boundary	
16.00 17.00	Alberto Ibort	
16:30-17:00	Constrained Poisson systems	
17.20 19.00	Victor Planas	
17:30-18:00	Lie algebroids and control theory	
10.00 10.90	Equardo Martinez Fernandez	
18:00-18:30	Quasi-Di versus Di-quasi Hamiltonian systems	
	willy sallet	

Friday 20, Room 202

10:30-11:00	A distribution theoretical approach to reduction and Hamilto-
	nian conservation laws
	Juan-Pablo Ortega
11:00-11:30	Lie groups and control theory
	José Cariñena
11:30-12:00	Geometric integrators in constrained mechanics
	David Martín de Diego
12:00-12:30	Covariant Poisson reduction: first steps
	Marco Castrillón López
12:30-13:00	Integrability properties of chained systems in nonholonomic
	mechanics
	Felipe Monroy-Pérez
13:00-13:30	On separation of variables for algebraically integrable Hamil-
	tonian
	Franco Magri
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Saturday 21, Room 202

10:00-10:30	Gradient control systems
	Jorge Cortes
10:30-11:00	On the global stabilization of the inverted pendulum
	Javier Aracil