Gauge Topology 3: from Lattice to Colliders

ECT* workshop program, 28 May -01 June 2018

Monday				
08:40-09:05	Registration			
09:05-09:20	Welcome Address			
		SESSION 40+10mins		
09:20-10:10	Confinement criteria and the Higgs Mechanism	Speaker: Jeff Greensite		
10:10-11:00	Topology and Chiral Symmetry Breaking at Nonzero theta angle	Speaker: Jacobus Verbaarschot		
11:00-11:40	Coffee			
11:40-12:30 12:30-14:30	Adiabatic continuity and spectral conspiracy in adjoint QCD Lunch	Speaker: Mikhail Shifman		
14:30-15:20	Gluon propagator and vertex from lattice QCD: a path to the instanton liquid parameters?	Speaker: Feliciano de Soto		
15:20-16:00	Coffee			
16:00-16:50	Topological Charge in Lattice QCD and the Chiral Condensate	Speaker: A. Athenodorou		
16:50-17:30	Free Discussion			
	Tuesday			
		SESSION 40+10mins		
09:20-10:10	Monopoles and instantons dyons	Speaker: Edward Shuryak		
10:10-11:00	Recent Progress in Understanding the Role of Monopoles in QCD	Speaker: Adith Ramamurti		
11:00-11:40	Coffee			
11:40-12:30	Topological susceptibility in QCD at high temperature: a status report	Speaker: Claudio Bonati		
12:30-14:30	Lunch			
14:30-15:20	UA(1) breaking from the lattice and its topological origin	Speaker: Sharma Sayantan		
15:20-16:00	Coffee			
16:00-16:50	Topology in hot QCD with four quark flavours	Speaker: M.P. Lombardo		

16:50–17:30 Free Discussion

Wednesday

SESSION 40+10mins

	Resurgence, Large N and Phase Transitions Topological properties of CP^(N-1) models in the large-N limit Coffee	Speaker: Gerald Dunne Speaker: Claudio Bonanno
11:40-12:30	A scalar SO(3)-theory and its topological excitations	Speaker: Manfried Faber

Thursday

		SESSION 40+10mins
09:20-10:10	Recent Results on the confining string in Lattice Gauge Theories	Speaker: Michele Caselle
10:10-11:00	Baryon bags in lattice QCD	Speaker: Christof Gattringer
11:00-11:40		Consider Local della conse
11:40-12:30 12:30-14:30	The chiralspin symmetry of confinement and its implications for QCD Lunch	Speaker: Leonid Glozman
14:30-15:20	Topological Properties of SU(3) Yang Mills Theory With Double Trace Deformation	Speaker: Marco Cardinali
15:20-16:00	Coffee	
16:00-16:40	Lattice calculation of sphaleron diffusion rate in gluodynamics	Speaker: Andrey Kotov

16:40-17:20 **Free Discussion**

12:30-14:30 Lunch

Friday				
		SESSION 40+10mins		
09:20-10:10	Gauge Theory, Topology and Geometry	Speaker: Kishore Marathe		
10:10-11:00	Nonequilibrium axial charge production in expanding Glasma flux tubes	Speaker: Naoto Tanji		
11:00-11:40	Coffee			
11:40-12:20	Discussion & Close			
12:20-14:00	Lunch			