Algorithms & Machines

Monday 2:10 -3:50 Martin Hasenbusch **Synge Lecture Theatre**

Alexei Bazavov	Biased Metropolis Algorithms for Lattice Gauge Theory
Akira Ukawa	The PACS-CS Project
Matthias Nyfeler	A new efficient cluster algorithm for the Ising model
Stephane Riederer	Efficient Cluster Algorithms for CP(N-1) Models
Francesca Maresca	The locality of the fourth root of the staggered fermion determinant in the interacting case

Friday 2:10-3:50 Ulli Wolff **Synge Lecture Theatre**

Michael Clark	Algorithm Shootout: R versus RHMC
Martin Hasenbusch	Speeding up the HMC algorithm: Some new results
Peter Hasenfratz	Full QCD algorithm for 2+1 light flavours with the FP action
Carsten Urbach	HMC algorithm with multiple time scale integration and mass preconditioning

Posters

Alban Allkoci	Reducing the beta-shift in domain wall fermion simulations
Roberto Ammendola	Status of the APENet project
Artan Borici	The shifted unitary orthogonal method for the overlap inversion
Owen Callanan	An Investigation of an Alternative Compute Platform for Lattice QCD
Thomas Chiarappa	A (P)HMC algorithm for N_*F* =2+1+1 flavours of twisted mass fermions
Massimo Di Pierro	Lattice QFTs with FermiQCD
Don Holmgren	U.S. Lattice Clusters and the USQCD Project
Waseem Kamleh	Polynomial Filtering for HMC in Lattice QCD
Stefan Krieg	Improving the dynamical overlap algorithm
Vincenzo Miccio	Fermionic observables in Numerical Stochastic Perturbation Theory
Mostafa Mjahed	Multivariate Search of Higgs boson at LHC
Hinnerk Stueben	Transnational Access to Mass Storage Capacity for Computational QCD