

Session 3: Lattice calculations & computational quantum field theory

Session conveners:

Michael Creutz (BNL)
Mikhail Polikarpov (ITEP)

Beige Hall

Saturday, July 29, 2006

Session I 09:00 – 11:00

Chair: **V. G. Bornyakov**
Secretaries: **Vladimir Skokov**
Sergey Kuklin

09:00 – 9:30	Impact of Lattice QCD calculations on Unitarity Triangle fits Marcella Bona	Marcella Bona (LAPP, Annecy)
09:30 – 10:00	Lattice QCD with light Wilson twisted quarks	Andrea Shindler (DESY Zeuthen)
10:00 – 10:30	Analytic estimate of the order parameter for magnetic charge condensation in QCD	Adriano Di Giacomo (Pisa)
10:30 – 11:00	Magnetic strings and domain walls in vacuum state of lattice Yang-Mills theories	Valentine Zakharov (ITEP)

Session II 11:30 – 13:00

Chair: **Mikhail Polikarpov**
Secretaries: **Vladimir Skokov**
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11:30 – 12:00	On-shell methods in perturbative QCD	Zvi Bern (UCLA)
12:00 – 12:20	Non perturbative HQET at the $1/m$ order	Nicolas Garron (DESY Zeuthen)
12:20 – 12:40	Gribov copy problem in lattice gauge theory simulations	Vitaly Bornyakov (IHEP Protvino)
12:40 – 13:00	Nontrace method of analytical calculation of Feynman diagrams	Viktor Andreev (Gomel)