

Workshop Agenda 26-28 Sept.

TSU (Chavchavadze 1), room 107

26 September (Thursday)

12:00 Opening (10 min)

12:10 Zou "Five quark components in baryons and pentaquark states"

12:50 Guo "Use of triangle singularity in precisely measuring the X(3872) mass"

13:30 Colangelo "Dispersive treatment of the hadronic light-by-light contribution to the Muon $g-2$ "

14:10 *coffee*

14:40 Kartvelishvili "Associated production of Quarkonium in ATLAS"

15:20 Vairo "Theory of quarkonium electromagnetic transitions"

16:00 Gegelia "On the QCD contribution to vacuum energy"

16:40 *coffee*

17:10 Agadjanov "Pion-nucleon sigma term from lattice QCD"

17:50 Belfatto "The CKM unitarity problem: A trace of new physics at the TeV scale?"

27 September (Friday)

09:00 Berezhiani "Neutron decay anomalies as a window to the BSM physics"

09:40 Vainstein "Neutron-antineutron oscillations: discrete symmetries and effective operators"

10:20 Lavrelashvili "Effects of gravity in metastable vacuum decay"

11:00 *Coffee*

11:30 Khodjamirian "Form factors of heavy mesons from various versions of QCD sum rules"

12:10 Zhokhov "Dualities of QCD phase diagram: chiral imbalance and pion condensation"

12:50 Machavariani "Present theoretical and experimental status of the light vector mesons"

13:30 *Lunch*

15:00 Meissner "Theory of Hadron resonances"

15:40 Luu "Machine Learning and Holomorphic Flow: Alleviating the Sign Problem in Lattice Monte Carlo Simulations"

16:20 Elhatisari "Lattice simulations for nuclear structure and reactions"

17:00 *Coffee*

17:30 Petschlies "Non-perturbative QCD corrections to electro-weak observables: the case of muon's $g-2$ "

18:10 Stellin "Bound and Scattering States in a Finite Volume including the Coulomb Interaction"

19:30 – 23:00 Conference dinner (Restaurant "Shadow of Metekhi", 29 Ketevan Tsamebuli Ave.)

28 September (Saturday)

09:00 Shandize "MPD project at the Nuclotron-based Ion Collider facility (NICA)"

09:40 Rathmann "Electric Dipole Moment Searches using Storage Rings"

10:20

11:00 *Coffee*

11:30 Gahramanov "Chiral symmetry breaking in supersymmetric gauge theories
as an inversion relation for lattice spin models"

12:10 Jorjadze "The S-matrix of Liouville theorem"

12:50 Closing session