Test of Symmetries and the Electroweak Interaction: Parallel Schedule

Parallel 2 May 29: **Nucleon and Nuclear Electric Dipole Moments**

1. 20': **[252]** *EDM theory overview*
   Emanuele Mereghetti, LANL
2. 20': **[191]** *Worldwide search for the neutron edm*
   Brad Filippone, Caltech
3. 20': **[205]** *Towards TUCAN's search for the neutron electric dipole moment*
   Wolfgang Schreyer, TRIUMF
4. 20': **[258]** *Status of the storage ring proton EDM experiment*
   Selcuk Haciomeroglu, IBS (Korea)
5. 20': **[192]** *The Radium-225 experiment*
   Matthew Dietrich, Argonne
6. 20': **[107]** *Progress on the nucleon EDM in lattice QCD*
   Sergey Syritsyn, Stony Brook U
7. 20': **[139]** *Search for time reversal invariance violation in resonances of compound nuclei accessible using epithermal neutrons*
   Libertad Barron-Palos, UNAM

Parallel 4 May 30: Beta decays

1. 20': **[147]** *Measurement of the neutron lifetime using a magneto-gravitational trap*
   Nathan Callahan, Indiana U
2. 20': **[123]** *Measurement of the electron-antineutrino correlation in neutron beta decay: aCORN experiment*
   Fred Wietfeldt, Tulane U
3. 20': **[208]** *New results from the UCNA experiment*
   Eric Dees, NCSU
4. 20': **[70]** *Beta decay asymmetry measurements with trapped atoms*
   Dan Melconian, Texas A&M
5. 20': **[66]** *Nuclear beta decays and CKM unitarity*
   John Hardy, Texas A&M
6. 20': **[13]** *Recent status of weak-interaction tests via precision superallowed* β*-decay measurements at TRIUMF*
   Kyle Leach, Colorado School of Mines
7. 20': **[3]** *New evaluation of the* γW*-box correction to* $0^+ \rightarrow 0^-$ *nuclear* β*-decay and* V_{ud} *extraction*
   Misha Gorshteyn, Mainz

Parallel 6 May 31: Symmetry tests

1. 30': **[267]** *Precision atomic tests of physics beyond the standard model*
   Holger Muller, Berkeley
2. 30': **[277]** Muon *g-2 experiments at FNAL and J-PARC*
   Joe Price, U Liverpool
3. 20': **[149]** *New results on low-energy hadronic cross sections and implications for*

muon g-2
Bill Gary, UC Riverside

4. 20': **[61]** *Baryogenesis by particle-antiparticle oscillations*
   Seyda Ipek, UC Irvine
5. 20': **[203]** *Search for neutron-antineutron oscillations at the Sudbury Neutrino Observatory*
   Marc Bergevin, LLNL
6. 20': **[161]** *Neutron-antineutron conversion to search for B-L violation*
   Susan Gardner, U Kentucky

Parallel 7 June 1: Weak Parameters (PHE/TSEI)

1. 20': **[109]** *Review of the first W boson mass measurement with the ATLAS detector*
   Fabrice Balli, Saclay CES
2. 20': **[xx]** *The weak charge: from atoms to the Z pole*
   Misha Gorshteyn, Mainz
3. *20':* **[280**] *Nuclear weak charge measurements through atomic PNC*
   Gerald Gwinner, U Manitoba
4. 20': **[367]** *Parity violating electron scattering experiments for an ultra precise determination of the weak mixing angle at low energies*
   Frank Maas, Mainz
5. 20': **[365]** *High precision extraction of A_fb at the LHC*
   CMS Collaboration (reporting also for ATLAS and LHCB) Arie Bodek, Rochester U

Parallel 8 June 1: Neutrinos and Symmetries (NMNM/TSEI)

1. 20': **[301]** *Laboratory searches for sterile neutrinos*
   Joshua Spitz, U Michigan
2. 20': **[253]** *Sterile neutrinos in the early universe*
   George Fuller, UC San Diego
3. 20': **[294]** *Nonstandard neutrino interactions*
   Andre deGouvea, Northwestern U
4. 20': **[25]** *Detecting CP violation in the presence of nonstandard neutrino interactions*
   Jeffrey Hyde, Goucher College
5. 20': [**217]** *Neutrino oscillations and supernova nucleosynthesis*
   Baha Balantekin, U Wisconsin
6. 20': **[151]** *Collective neutrino oscillations in the presence of collisions*
   Shashank Shalgar, LANL
7. 20': **[340]** *Neutrino flavor transformation and the cosmic lepton asymmetry*
   Luke Johns, UC San Diego

Parallel 9 June 2: Hadronic Parity Violation and Symmetries in Atoms

1. 30': **[255]** *Hadronic PNC and the Large Nc*
   Matthias Schindler, S. Carolina
2. 30': **[178]** *Final results from the n3He experiment: Parity violation in the n-3He capture*
   Michael Gericke, U Manitoba

3. 20': **[2]** *Large-Nc HPNC Analyses post NPDGamma*
   Wick Haxton, UC Berkeley
4. 20': **[243]** *Lattice QCD for Hadronic Parity Violation*
   Andre Walker-Loud, LBNL
5. 20': **[254]** *Anapole moments*
   Sid Cahn, Yale U
6. 20': **[55]** *Searching for hadronic CP violation in deformed nuclei with polar molecules*
   Nick Hutzler, Caltech