

Physics at High Energy: Parallel Schedule

Parallel 1 May 29: Standard Model Tests/Theory

1. 30': [43] *Studying the electroweak sector with the ATLAS detector*
ATLAS collaboration Margherita Spalla, Munich MPI
2. 25': [281] *Recent Developments in Higgs Physics Precision Calculations*
Tobias Neumann, Fermilab
3. 25': [274] *Neutrino Masses from a Pseudo-Dirac Bino and Its LHC Implications*
Seyda Ipek, UC Irvine
4. 20': [283] *Modification of the Higgs Pair Production at the LHC*
Aniket Joglekar, UC Riverside

Parallel 2 May 29: Higgs Physics

1. 20': [45] *Measurements and searches of the Higgs boson decays to two fermions*
ATLAS Collaboration Tatsuya Masabuchi, Tokyo
2. 25': [46] *Evidence for Higgs boson production in association with a $t\bar{t}$ pair*
ATLAS Collaboration Jannik Geisen, Gottingen
3. 25': [44] *Measurement of the cross sections and properties of the Higgs boson in decays to bosons using the ATLAS detector*
ATLAS Collaboration Lucrezia Stella Bruni, NIKEF
4. 25': [47] *Searches for rare and non-Standard-Model decays of the Higgs boson*
ATLAS Collaboration Elliot Reynolds, Birmingham
5. 25': [259] *Precision Measurements with Di-bosons at the LHC*
Da Liu, ANL
6. 20': [291] *Heavy Higgs search in the models with vectorlike fermions*
Seodong Shin, Indiana U

Parallel 3 May 30: Accelerator Searches for DM (DM/PHE)

1. 30': [38] *Dark matter searches with the ATLAS detector*
Young-Kee Kim, U Chicago
2. 30': [353] *Mono-X searches with the CMS detector*
Sid Narayanan, MIT
3. 20': [39] *Searches for dark matter mediators with the ATLAS Detector*
Peter McNamara, U Melbourne
4. 20": [354] *Searches for dark matter mediators with the CMS Detector*
Javier Duarte, FNAL

Parallel 4 May 30: Physics Beyond the Standard Model I

1. 20': [49] *Search for the di-Higgs production at ATLAS*
ATLAS Collaboration Arnaud Ferrari, Uppsala
2. 20': [48] *Searches for non-standard-model Higgs bosons*
ATLAS Collaboration Ana Dumitriu, CERN
3. 20': [328] *Highlights from SUSY searches with the CMS detector*
CMS Collaboration James Hirschauer, FNAL
4. 20': [303] *Searches for physics beyond the Standard Model with third-generation quarks*
ATLAS Collaboration Siyuan Sun, Michigan

5. 20': **[41]** *ATLAS searches for diboson resonances*
ATLAS Collaboration Ines Ochoa, Columbia
6. 20': **[163]** *Mining the LHC Data for Anomalies*
Angelo Montea, UC Irvine
7. 20': **[9]** *Theoretical results for charged-Higgs production*
Nikolaos Kidonakis, Kennesaw State

Parallel 5 May 31: Physics Beyond the Standard Model II

1. 30': **[42]** *Searches for new phenomena in leptonic final states using the ATLAS detector*
ATLAS Collaboration Sebastien Rettie, UBC
2. 30': **[336]** *Searches for BSM Physics with CMS Detector*
CMS Collaboration Sunil Somalwar, Rutgers U
3. 20': **[138]** *Effective field theory for Higgs physics*
Chris Murphy, BNL
4. 20': **[309]** *Probing hidden sectors at the LHC*
Brian Shuve, Harvey Mudd

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': **[265]** *High precision extraction of A_{fb} at the LHC*
CMS Collaboration (reporting also for ATLAS and LHCb) Arie Bodek, Rochester U

Parallel 9 June 2: LHC Future/Theory

1. 25': **[338]** *Expected performance of the upgraded CMS experiment for the HL-LHC*
CMS Collaboration Olmo Cerri, Caltech
2. 25': **[119]** *Expected performance of the upgraded ATLAS experiment*
ATLAS Collaboration Peilian Liu, UC Berkeley
3. 25': **[334]** *Precision timing with the CMS Detector*
CMS Collaboration Irene Dutta, Caltech
4. 25': **[298]** *Muon spectrometer phase I upgrade for the ATLAS experiment – the new Small Wheels project*
ATLAS Collaboration Benoit Lefebvre, McGill University
5. 20': **[272]** *Machine learning for new physics searches*
Raffaele D'agnolo, SLAC
6. 20' **[320]** *How a future leptonic collider will indirectly probe neutralino dark matter*
Ran Huo, UC Riverside