

Schedule of 7th School on LHC Physics (06 – 17 August 2018)

| TIME (PST) | Mon (06 th Aug) | Tue (07 th Aug) | Wed (08 th Aug) | Thu (09 th Aug) | Fri (10 th Aug) | Sat (11 th Aug) |
|---------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------|
| 09:20 – 10:10 | Registration 08:30 – 9:20 Welcome Session 9:20 – 10:10 | Standard Model of PP - II (Faisal Akram) | Pakistan-CERN Collaboration Role of PAEC | HEP in Pakistan and Role of HEC | Grid Computing at CMS (Giuseppe Bagliesi) | Egamma and jet+MET performance at CMS - II (Livia Soffi) |
| 10:10 – 11:00 | Overview of the LHC physics (Hafeez Hoorani) | Overview of Statistical techniques in HEP - I (Youngjoon Kwon) | Statistical techniques in HEP - II (Youngjoon Kwon) | | Status and upgrade of the CMS Muon Spectrometer (Anna Colaleo) | v Introduction to Grand Unification Theory - I (Mansoor ur Rehman) |
| 11:00 – 11:20 | Tea | | | | | |
| 11:20 – 12:10 | Overview of Physics with CMS (Ashfaq Ahmad) | CMS Tracker Detector (Ashfaq Ahmad) | Introduction to Particle Physics (Ashfaq Ahmad) | Statistical techniques in HEP - III (Youngjoon Kwon) | QCD - III (Bilal Masud) | MC and PDF at LHC - I (Rachid Mazini) |
| 12:10 – 13:00 | Overview of the Standard Model of PP - I (Faisal Akram) | CMS GEM Detectors (Saleh Muhammad) | Egamma and jet+MET performance at CMS (Livia Soffi) | QCD - II (Bilal Masud) | Egamma and jet+MET performance at CMS - I (Livia Soffi) | TOP Quark Physics at LHC (Muhammad Waqas) |
| 13:00 – 14:00 | Lunch | | | | | |
| 14:00 – 14:50 | Overview of QCD (Bilal Masud) | RPC's at CMS Detector (Irfan Asghar) | QCD - I (Bilal Masud) | SUSY - I (Rizwan Khalid) | SUSY - II (Rizwan Khalid) | Tutorial-III ROOT-I (Muhammad Waqas) |
| 14:50 – 15:40 | Discussion | Introduction to detector readout and Frontend electronics (Waqar Ahmad) | Standard Model of PP - III (Faisal Akram) | Tutorial-I Introduction to C++ - I (Adeel-ur-Rehman) | Tutorial-II Introduction to C++ - II, (Adeel-ur-Rehman) | Tutorial-IV Introduction to python (Adeel-ur-Rehman) |
| 15:40 – 16:10 | Tea | | | | | |
| 16:10 – 17:00 | Discussion Sessions (Corresponding Group Leader) | | | | | |

| TIME (PST) | Sun (12 th Aug) | Mon (13 th Aug) | Tue (14 th Aug) | Wed (15 th Aug) | Thu (16 th Aug) | Fri (17 th Aug) |
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| 09:20 – 10:10 | Excursion | Di-boson physics at CMS - I (Matthias Mozer) | Holiday | Public Lecture from 9:40 – 11:00 Hadron Colliders Physics – historical perspective to Future (Roberto Carlin) | Di-boson physics at CMS - III (Matthias Mozer) | Students Presentations |
| 10:10 – 11:00 | | MC and PDF at LHC - II (Rachid Mazini) | | | Physics of Gaseous Detectors - II (Alexei Safonov) | |
| 11:00 – 11:20 | | Tea | | Tea | | |
| 11:20 – 12:10 | | Egamma and Jet+MET performance at CMS - III (Livia Soffi) | | Di-boson physics at CMS - II (Matthias Mozer) | LHC Phenomenology - II (Shabbar Raza) | Concluding Session |
| 12:10 – 13:00 | | Introduction to Grand Unification Theory - II (Mansoor ur Rehman) | | Physics of Gaseous Detectors - I (Alexei Safonov) | Black hole Physics at the LHC (Aatif Imtiaz Butt) | |
| 13:00 – 14:00 | | Lunch | | Lunch | | |
| 14:00 – 14:50 | | Tutorial-V ROOT-II (Muhammad Waqas) | | MC and PDF at LHC - III (Rachid Mazini) | Tutorial-VIII CMS data analysis (Shoaib +Ahmad) | Departure |
| 14:50 – 15:40 | | Tutorial-VI CMS data analysis (Rachid + Shoaib + Ahmad) | | Tutorial-VII CMS data analysis (Shoaib +Ahmad) | Tutorial-IX CMS data analysis (Shoaib +Ahmad) | |
| 15:40 – 16:10 | | Tea | | Tea | | |
| 16:10 – 17:00 | | Discussion (Corresponding Group Leader) | | Conference Dinner | | Discussion (Corresponding Group Leader) |