
Physics at the Large Hadron Collider

Seminar for the TU München, PD Dr. H. Kroha

Summer Semester 2008
MPP, room 104, Tuesdays 14:00 – 15:00
Start: 22.04.2008.

The topics are selected to cover the most interesting **latest results of ATLAS CSC notes**, with an emphasis on the **LHC physics** which can be performed **with early data**.

Speakers should also benefit from their talks:

- extend the knowledge related to their field of research and
- (for students) train their presentation skills.

Preliminary agenda, suggested topics:

1. **Charged Higgs Boson Searches (Thies Ehrich, 29.04.)**
2. **Missing Energy and Tau–Lepton Reconstruction in ATLAS (Stefan Stonjek, 27.05.)**
3. **Statistical Meth. for Determining the Higgs Disc. Potential (Oliver Kortner 03.06.)**
4. **Incl. SUSY Searches and Data–Driven Background Estim. (Federica Legger, 17.06.)**
5. **Excl. SUSY Searches and Exotic Multilepton Final States (Joerg von Loeben, 24.06.)**
6. **Search for Higgs Boson Decays $H \rightarrow WW$ (Steffen Kaiser, 01.07.)**
7. **Production of Gauge Boson Pairs at the LHC (Daniela Rebutzi, 15.07.)**
8. **Search for Higgs Boson Decays $H \rightarrow ZZ^{(*)} \rightarrow 4l$ (Alessia D'Orazio, 22.07.)**
9. **Jet Energy Calibration in ATLAS (Andreas Jantsch, 29.07.)**
10. **$W/Z(+jets)$ cross–section measurement (Sandra Horvat)**
11. **tt cross–section measurement (SCT?)**
12. **top mass measurement (SCT?)**
13. **Commissioning of the muon spectrometer (Bernhard Bittner?)**
14. **Theory**