



# DESY Seminar

28 June 2005, 17:00, DESY Hörsaal

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## *Standard Model Physics at the LHC*

In addition to the large discovery potential for new physics phenomena, like for instance Supersymmetry, experiments at the LHC will also be able to perform precise measurements of many Standard Model processes. The huge cross sections and the high collision energy will allow the exploration of less well tested areas of the Standard Model and to improve significantly on the precision of many parameters. Therefore the detailed experimental study of known Standard Model processes at the LHC will not only prepare the anticipated discoveries but also complement their interpretation. The talk will describe some selected items on the perspectives of the two general purpose detectors ATLAS and CMS on the determination of parton distribution functions, tests of QCD and electroweak physics at the highest energies, the physics of the top quark and the search for the Higgs boson.

- Tea and cookies will be served at 16:45 in the lobby.
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels also in the lobby.