

DESY Seminar

Tuesday, 30.10.2007, 17h

DESY Hörsaal

PDFs for the LHC

Robert Thorne (UCL)

I present an update of the extraction of parton distributions and consequences for the LHC. I begin by discussing the issues involved in a full study at NNLO, showing that the consequences of the complete heavy flavour treatment are surprisingly large. I show the influence of new data sets on the parton distributions, with significant effects for the gluon and down and strange quark distributions. I briefly illustrate the influence that the measurement of standard processes at the LHC will have. Finally I present the results of a study on the most appropriate parton distributions to use with LO Monte Carlo generators.

- **Tea and cookies will be served at 16.45h in the lobby**
- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**