



EINLADUNG

im Rahmen des Teilchenphysikseminars

zum Vortrag

von

Bryan Webber

(Cavendish Lab, Cambridge)

über

***“Standard Model parton distributions
at very high energies“***

Abstract:

At energies far above the electroweak scale, electroweak symmetry is restored and the parton distribution functions of the proton receive contributions from all the Standard Model fermions and bosons. Fundamentally new phenomena appear, such as self-polarisation, mixed PDFs and double-logarithmic evolution. I will discuss the evolution of the 60 SM PDFs of the unpolarised proton according to the SU(3), SU(2), U(1), mixed SU(2)×U(1) and Yukawa interactions, and show that it can lead to important corrections to parton luminosities at a future 100 TeV collider.

Zeit: Dienstag, 11.12.2018, **16:15**

Ort: Erwin Schrödinger-Hörsaal, Boltzmannngasse 5, 5. Stock

gez.: A. Hoang, S. Plätzer, M. Procura