



ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ

ОБЩЕИНСТИТУТСКИЙ СЕМИНАР

8 июня 2011г. (среда)
Начало в 15.00

Дом ученых ОИЯИ

A. Glazov
(DESY)

Electroweak Physics at the LHC

The first year of the LHC operation provided plenty of accurate data to rediscover the standard model physics at the highest energy frontier. Excellent performance of the ATLAS and CMS detectors enabled an accurate measurement of the production of the standard model W and Z bosons. The data are compared with the NNLO theory predictions which use the HERA data as input. Constraints on the proton structure from the early LHC data are discussed. Promising start of the LHC in 2011 should allow for high precision measurements within the standard model in near future, and perhaps give a glimpse on the physics beyond it.