



Séminaire du Laboratoire de l'Accélérateur Linéaire

Prof. V.a. Khoze

IPPP, University of Durham

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Forward and central exclusive production processes at the LHC

We discuss the current status and perspective of diffractive and forward physics at the LHC. The updates are given on the Central Exclusive Production (CEP) processes obtained within the Durham model as well as an implementation of this model into the new Monte Carlo generator, SuperChic 2. The photon-photon collider option at the LHC in the forward proton mode is reviewed. Motivated by the recent LHC observation of an excess of diphoton events around 750 GeV invariant mass we discuss the possibility that this is due to the spin-zero resonance dominantly produced in photon-photon fusion. We show that the inclusive photon-photon luminosity could be calculated with an uncertainty about 15

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis 5 mn avant le séminaire



Responsables : N. Delerue et R.Tanaka (seminaires@lal.in2p3.fr)- <http://www.lal.in2p3.fr>