



Séminaire du Laboratoire de l'Accélérateur Linéaire

Emanuele Re

LAPTH, Annecy

Mardi 22 Novembre 2016 à 11 :00

Event Generators for the LHC : status and perspectives

Event generators are used extensively in many LHC searches and therefore improving their theoretical accuracy is important for fully exploiting the LHC potential. I will briefly explain the basic concepts and approximations upon which these tools are built and review the theoretical developments that in the last decade allowed to improve substantially the accuracy of these programs. In the last part of the talk, I will show how a combination of two of these methods (POWHEG and MiNLO) allows to match parton showers with NNLO QCD computations, and show results for Higgs, Drell-Yan, and VH production. Time permitting I will also give some perspectives on possible developments in the forthcoming years.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis 5 mn avant le séminaire



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