

## Boosted massive jets @ LHC

*mercredi 15 décembre 2010 15:00 (1 heure)*

I will talk about the emergence of boosted massive jets (such as top or Higgs jets) at the LHC, and the nature of the problem (finite resolution). Then, I will talk about recent development of semi-analytical tools, including jet mass distribution and jet-substructure to understand signal and QCD background. In particular, I will present a new class of infrared safe jet observables, template overlaps, designed to filter targeted highly boosted particle decays from QCD jets and other background. Possible hints for New Physics from Tevatron will be also discussed.

Talk based on: arXiv:1006.2035, arXiv:0810.0934, arXiv:0807.0234, and work in progress.

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