ID de Contribution: **181** Type: **Ordinary**

BSM Physics: Boosted object searches at ATLAS and CMS

vendredi 21 mars 2014 17:20 (15 minutes)

Several models of physics beyond the Standard Model predict new heavy particles that can decay to boosted W,Z,H or top, that is, with a transverse momentum that considerably exceeds their rest mass. This is a new kinematic regime where classical reconstruction approach relying on one-to-one jet to parton assignment is not adequate anymore. New techniques for the reconstruction of such objects at the LHC have been recently developed and succesfully applied to analyses based on the Run I data at 8TeV allowing to extend the sensitivity of BSM searches. These new reconstruction approaches are now even more crucial for the incoming Run II at 13 TeV.

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Classification de Session: Beyond the Standard Model

Classification de thématique: Experiment