Theory Seminar

Monday, April 4, 2011 2:10 PM 831 Pupin Hall

The Top Forward-Backward Asymmetry at Tevatron and the LHC

The anomalously large top forward-backward asymmetry measured at the Tevatron is a striking result which, if borne out, requires new physics at relatively low mass scales. Whatever this new physics may be, it must carry some nontrivial flavor structure, and thus provides a first hint for beyond-the-standard-model theories of flavor. I'll talk about a model which connects the observed top forward-backward anomaly to anomalies in B mesons, and discuss the discovery prospects for this and other models at the LHC. I will further discuss prospects for measuring the top forward-backward asymmetry at the LHC.

Jessie Shelton, Yale University