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Probing t-channel physics of top asymmetry at the LHC

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Both CDF and D0 have observed unexpectedly large forward-backward asymmetry of top quarks. To convincingly identify the origin of the measured deviation, the LHC measurement of corresponding observable would be important. Among various potential causes, one possible explanation is from additional new t-channel production mode of top pairs. Interestingly, most t-channel new physics models are expected to produce early LHC signatures that can be measured even earlier than the direct asymmetry observable. We thus present various observables and strategies to look for t-channel physics at the LHC with 1fb-1.

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