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## **Top-antitop pair production at very high $p_t$ : resummation effects in the back to back configuration.**

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At the LHC energies, top quarks are mostly produced in pairs (top-antitop), and also with a reasonable rate in the boosted regime: top jets with  $p_t > 400 \text{ GeV}$ . Increasing the  $p_t$  of the top candidates, the back to back configuration is enriched, and in this region soft gluon re-summation effects play an important role and its studies are crucial in order to understand the imbalance between the jets. These soft radiations could be even directly measured in higher boosted regime. In this talk, phenomenological studies on top jet in the boosted regime are presented. Detail discussions of some theory predictions performed with different MC generators: Powheg+Pythia, Madrgraph+Pythia, and Powheg+CASCADE (TMD) are compared.

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