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The Top-Quark Charge Asymmetry with a Jet Handle

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Top-quark physics provides us with a portal to potential physics beyond the standard model. To date, the only evidence of an anomaly in top-quark physics is the large charge asymmetry observed at the Tevatron. Shedding light on this anomaly by measuring a charge asymmetry at the LHC, however, is a difficult endeavor. I will discuss the prospects to observe a charge asymmetry in top-antitop production in association with an energetic jet. This “jet handle” can further help to discriminate between new-physics scenarios that attempt to explain the Tevatron anomaly.

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