



Contribution ID: 340

Type: **Poster**

## **Detectors for Superboosted tau-leptons at Future Circular Colliders**

*Saturday 6 August 2016 18:00 (2 hours)*

We study detector performance of tau-lepton identification variables at very high energy proton colliders. We study hadronically-decaying tau-leptons with transverse momentum in the TeV range. Calorimeters are benchmarked in various configurations in order to understand the impact of granularity and resolution on boosted tau-lepton discrimination.

**Author:** SEN, Sourav (Duke University (US))

**Co-authors:** KOTWAL, Ashutosh (Duke University (US)); CHEKANOV, Sergei (Argonne National Laboratory (US))

**Presenter:** SEN, Sourav (Duke University (US))

**Session Classification:** Poster Session

**Track Classification:** Detector: R&D and Performance