

Discussion

Top@LC 2017
June 2017
CERN

Discussion Starters: Reconstruction / Simulation

- Are we ready to do full simulation studies with WHIZARD at threshold? If not: What do we still need?
- Can we also use MadGraph in full simulations?
- Can we derive concrete detector requirements from top physics?

Discussion Starters: Running Scenarios

- How do we react to staging? How to integrate 250 GeV (bbbar instead of ttbar first?)

Discussion Starters: Continuum

- Can we quantify the minimum “safe” energy for continuum studies?
- How many energy points are needed to control backgrounds? Would just one continuum point be enough?
- Given that we have accurate codes for NNLL+NLO hadron level observables such as 2-jettiness and some time soon other eventshape type observables as well: How well can one measure them in the experiment to do a direct top mass determination ? (see talk by Andre - interesting at 700+ GeV)

Discussion Starters: Threshold

- What studies do we still need to do to get a sufficient handle on systematics at threshold?
 - Experimental?
 - Theoretical?
- Is there something we can do to estimate theory systematics when we go beyond cross-section alone?

Finally: The Next Workshop

- A very fruitful workshop: We should do this again!
- The proposal:
Workshop 2018 at Tohoku University in Sendai, hosted by Hitoshi Yamamoto
- Exact date tbd