



Contribution ID: 399

Type: **Talk**

【395】 Top mass calibration for Monte-Carlo event generators

Thursday 2 September 2021 18:00 (15 minutes)

The relation between the top quark mass parameters of Monte-Carlo event generators and renormalized and well-defined Lagrangian masses is not very well understood and a subject of intense discussions in the community given that the current experimental uncertainties in direct top mass determinations is at the level of 300 MeV.

In this presentation I talk about preliminary results where the top quark mass parameters in the major Monte-Carlo event generators Pythia, Herwig and Sherpa are numerically calibrated to the pole mass and the MSR mass. The results quantify the different meanings of the top mass parameters in the different Monte-Carlo generators.

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Session Classification: Nuclear, Particle- & Astrophysics

Track Classification: Nuclear, Particle- and Astrophysics (FAKT - TASK)