

Effects of color reconnection on the top mass

Thursday, 7 May 2015 10:00 (1 hour)

Color reconnection constitutes one of the main limiting factors for the high-precision top-mass measurements at hadron colliders.

This talk will describe what color reconnection is, how it is modeled in event generators and how it affects the reconstruction of top final states, with a particular emphasis on the top mass.

A series of new color reconnection models implemented in Pythia 8 will be presented, focusing on their implications for the existing top mass measurements and demonstrating ways in which future measurements could be used to constrain them.

Presenter: ARGYROPOULOS, Spyridon (DESY, Hamburg)