Type: Top, heavy quarks and searches

Off-shell ttj production and top quark mass measurement

Monday, 28 August 2017 17:30 (30 minutes)

We present a NLO QCD calculation of ttj production at the LHC in the dilepton channel, where all non-resonant diagrams, interferences and off-shell effects of the top quark are included. We investigate different choice of dynamical scales in order to stabilize the perturbative convergence of the differential distributions

far away from the threshold. We will also discuss the application of our calculation to the top quark mass measurement study

and compare them with different theoretical predictions.

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Presenter: HARTANTO, Heribertus Bayu (Durham University) **Session Classification:** Top, heavy quarks and searches