

BSM² - Beyond the Standard Model BrainStorming Meeting: Particle Physics and Cosmology interface



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Exploring de Dark Universe @ the LHC using top quarks

Monday 15 July 2024 14:30 (40 minutes)

In this talk we will present our recent work on the studies of the LHC sensitivity to the detection of potential new boson mediators that couple to Dark Matter by looking into angular distributions in $t\bar{t}$ production at the LHC. We will show that no matter how hard and challenging the discover of New Physics is at the LHC, it is equally hard to remove the New Physics events in $t\bar{t}$ classical measurements, if indeed this New Physics exist!

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