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Searches for compressed SUSY scenarios with the CMS experiment

Thursday, 7 July 2022 18:15 (15 minutes)

Results from the CMS experiment are presented for supersymmetry searches targeting so-called compressed spectra. Those have small mass splittings between the different supersymmetric partners. Such a spectrum presents unique experimental challenges. This talk describes the new techniques utilized by CMS to address such difficult scenarios. The searches use proton-proton collision data with luminosity up to 138 fb^{-1} at the center of mass energy of 13 TeV collected during the LHC Run 2.

In-person participation

Yes

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