

Searches for BSM Physics with the CMS Detector

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Discovery of the Higgs boson at the Large Hadron Collider completed the Standard Model puzzle. However, we still do not know why the Higgs boson is light, what is the makeup of the dark matter, how matter survived in the evolution of the universe, etc. LHC's treasure-trove of proton-proton collision data could allow us to better understand the mysteries of the nascent universe and the Higgs mass. The CMS Collaboration has a broad program of searches which target heavy resonances, long-lived particles and other objects predicted by various theoretical models. I will describe how the CMS experimentalists are sorting through the LHC collision data to go Beyond the Standard Model. The focus of the talk will be on recent results obtained using data collected at Run-II of the LHC.

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