

# 31st International Symposium on Lepton Photon Interactions at High Energies



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## Dark matter and strong SUSY searches from CMS

*Tuesday 18 July 2023 16:30 (15 minutes)*

Determination of the nature of dark matter is one of the most fundamental problems of particle physics and cosmology. This talk presents recent searches for dark matter particles from the CMS experiment at the Large Hadron Collider. The talk covers also covers recent searches for strong production of Supersymmetric (SUSY) particles with and some without the SUSY dark matter candidates. The results are obtained from the proton-proton collision data with luminosity up to 138 fb<sup>-1</sup> at the center of mass energy of 13 TeV collected during the LHC Run 2.

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**Session Classification:** Dark Matter

**Track Classification:** Dark Matter