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## Highlights from the NA64 experiment

*Monday 22 September 2025 11:26 (20 minutes)*

NA64 is a fixed target experiment at the CERN Super Proton Synchrotron accelerator searching for Dark Sectors employing high-energy electron, positron, hadron, and muon beams. This talk reports the latest results on sub-GeV Dark Matter searches with the 2016-2022 statistics. With the new data, NA64 is starting to probe for the first time the very interesting region of parameter space motivated by benchmark Light Dark Matter models. The experiment can also probe a variety of well-motivated New Physics scenarios that will be briefly covered in this talk, such as ALPs, inelastic DM, B-L, and  $L\mu-L\tau$   $Z'$  boson searches. Moreover, in this contribution, we will also present the first results of NA64 running in positron and muon modes as well as the future plans of the experiment.

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