



Contribution ID: 201

Type: **Talk**

First results for searches of exotic decays with NA62 in beam-dump mode

Saturday 10 September 2022 11:20 (20 minutes)

We report on the search for visible decays of exotic mediators from data taken in “beam-dump” mode with the NA62 experiment. The NA62 experiment can be run as a “beam-dump experiment” by removing the Kaon production target and moving the upstream collimators into a “closed” position.

In 2021, more than 10^{17} protons on target have been collected in this way during a week-long data-taking campaign by the NA62 experiment. Using past experience, the upstream beam-line magnets were configured to sizably reduce background induced by ‘halo’ muons.

We report on the analysis results of this data, with a particular emphasis on Dark Photon Models.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

<https://na62.web.cern.ch/>

Is the speaker for that presentation defined?

No

Details

N/A

Internet talk

Maybe

Authors: CENCI, Patrizia (INFN Perugia (IT)); GHINESCU, Stefan Alexandru (Horia Hulubei National Institute of Physics and Nuclear Engineering (RO))

Presenter: GHINESCU, Stefan Alexandru (Horia Hulubei National Institute of Physics and Nuclear Engineering (RO))

Session Classification: High Energy Particle Physics

Track Classification: Main topics: High Energy Particle Physics