



Contribution ID: 6

Type: **Talk**

The PADME Detector

Saturday 5 September 2020 13:05 (25 minutes)

To search for the production of a dark photon (A') in the process $e^+ e^- \rightarrow A' \gamma$, the PADME apparatus has been built at the Frascati National Laboratory of INFN. This is a small-scale detector consisting of an active target, a beam monitor system, a spectrometer to measure the charged particle momenta in the range 50-400 MeV, a dipole magnet to deflect the primary positron beam out of the spectrometer and allow charged particles momentum analysis and an electromagnetic calorimetric system to detect with high accuracy the signal and background photons produced in the annihilations.

Each element has specific requirements that are stringent and sometimes at the limit of present technology. In the talk will be given an overview of each component, and a description of the chosen technical solutions implemented to accomplish the experiment needs. Results of the commissioning data taking, performed from October 2018 to February 2019, will be illustrated.

Is this abstract from experiment?

Yes

Is the speaker for that presentation defined?

No

Name of experiment and experimental site

PADME

Internet talk

Yes

Details

As soon as the abstract will be accepted the speaker for the talk will be appointed

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Session Classification: Parallel session