**Istituto Nazionale di Fisica Nucleare Laboratori Nazionali di Frascati**

Avviso di Seminario Generale

# Dr. Tommaso Spadaro

LNF INFN

**PADME results on X17 from Run-III data**

The PADME experiment at the Frascati National Laboratory of INFN has performed a search for the hypothetical X17 particle, by observing the product of the collisions of the positron beam from the DAΦNE LINAC on a diamond fixed target.

The beam energy has been varied in the range 265–300 MeV, corresponding to values of √s between 16.4 and 17.5 MeV, completely covering the center of mass region identified by the ATOMKI collaboration as significant for observing the postulated X17 particle. In my talk I will present the result of the analysis of these data, and briefly discuss the physics potential of the forthcoming PADME run, with an improved detector.

## Svolgimento Seminario

## Martedi’ 15/4 ore 14:30 Aula Touschek

https://agenda.infn.it/event/46739/

L'invito è esteso a tutto il personale interessato, che è caldamente invitato a partecipare.