

Backgrounds of the CUPID experiment

martedì 18 giugno 2024 17:30 (2 ore)

Next generation neutrinoless double beta experiments aims at covering the inverted hierarchy region of the neutrino mass spectrum, with sensitivities on the half-lives greater than 10^{27} years. The CUPID experiment will exploit cryogenic calorimeters to search for neutrinoless double beta decay of ^{100}Mo . To reach the target sensitivities one of the key requirements is the understanding and control of the backgrounds. The poster will detail the background sources relevant to the CUPID experiment. We will show the estimation of the background index for each of the sources, based on background models of past experiments and from detector performances in R&D tests.

Poster prize

No

Given name

Pia

Surname

Loaiza

First affiliation

IJCLab

Second affiliation

Institutional email

loaiza@ijclab.in2p3.fr

Gender

Female

Collaboration (if any)

CUPID

Autore principale: LOAIZA, Pia (IJCLab, CNRS, Université Paris Saclay)

Relatore: LOAIZA, Pia (IJCLab, CNRS, Université Paris Saclay)

Classifica Sessioni: Poster session and reception 1

Classificazione della track: Neutrinoless Double Beta Decay