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Exploring New Physics with PandaX-4T Low Energy Electronic Recoil Data

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The PandaX-4T experiment operates a dual-phase liquid xenon time projection chamber that is located in China Jinping Underground Laboratory. Searches for novel electronic recoil signals (NERS) in such type of detector due to solar axions, axion-like particles, dark photons, and neutrinos with an enhanced magnetic moment have attracted increasing attention as they could provide evidence for physics beyond the Standard Model and the Majorana nature of neutrinos. This poster will present the search results for NERS using both run-0 and run-1 low-energy electronic recoil data of PandaX-4T with a total exposure of 1.63 ton*year.

Poster prize

Yes

Given name

Xinning

Surname

Zeng

First affiliation

Shanghai Jiao Tong University

Second affiliation

Institutional email

xinningzeng@sjtu.edu.cn

Gender

Male

Collaboration (if any)

PandaX

Autore principale: ZENG, Xinning (Shanghai Jiao Tong University)

Relatore: ZENG, Xinning (Shanghai Jiao Tong University) **Classifica Sessioni:** Poster session and reception 2

Classificazione della track: Beyond Standard Model searches in the neutrino sector