Contribution ID: 21 Type: Oral report

Results of dark matter search using the full PandaX-II exposure

Wednesday, 18 August 2021 09:00 (15 minutes)

We report the dark matter search results obtained using the full 132 ton-day exposure of the PandaX-II experiment, including all data from March 2016 to August 2018. No significant excess of events is identified above the expected background. Upper limits are set on the spin-independent dark matter-nucleon interactions. The lowest 90% confidence level exclusion on the spin-independent cross section is $2.2 \times 10^{-46}~{\rm cm}^2$ at a WIMP mass of 30 GeV/ c^2 .

Primary author: 王, 秋红 (复旦大学)

Co-authors: Ms 张, 丹 (马里兰大学); Dr 谌, 勋 (上海交通大学); Prof. 刘, 江来 (上海交通大学)

Presenter: 王, 秋红 (复旦大学)

Session Classification: Parallel Session IV: Neutrino, Astroparticle Physics and Cosmology

Track Classification: 4. 中微子物理、粒子天体物理与宇宙学