

Searches of light dark matter and B8 neutrino events at PandaX-4T

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In a liquid xenon time projection chamber, traditional signal search strategy is not sensitive to light dark matter due to the limitation of detection threshold. To overcome this challenge, the PandaX collaboration has developed analyses using customized S1-S2 selections or ionized electron signal only (S2-only). In this talk, we will report the latest search results on light dark matter and solar B8 neutrino-nucleus coherent scattering signals with the PandaX-4T data.

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