

New results in the JSNS2 experiment

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The JSNS2 (J-PARC Sterile Neutrino Search at the J-PARC Spallation NeutronSource) experiment is searching for neutrino oscillations over a short 24 m baseline with Δm^2 near 1 eV square. We took the long physics runs in 2021,2022,2023 and 2024 with ~40% of approved POT by J-PARC. We're doing analysis from those data, and we have a few new results; such as the side-band analysis of the sterile neutrinos search, observation of the carbon and electron-neutrino interacted events, and the KDAR neutrinos measurement. In this presentation, we will show them in detail.

Working Group

WG 3: Accelerator Physics

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