

NuFact 2024 - The 25th International Workshop on Neutrinos from Accelerators

Contribution ID: 14

Type: **Talk: in-person**

New results in the JSNS2 experiment

Thursday, 19 September 2024 14:25 (20 minutes)

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

Primary author: LEE, DongHa (KEK)

Presenter: LEE, DongHa (KEK)

Session Classification: Parallel: WG5

Track Classification: WG5: Neutrino Beyond PMNS