Contribution ID: **3** Type: **Talk**

NA65(DsTau) experiment at CERN

Friday, 5 August 2022 14:50 (15 minutes)

The DsTau experiment at CERN-SPS has been proposed to measure an inclusive differential cross-section of a Ds production with a consecutive decay to tau lepton in p-A interactions. A precise measurement of the tau neutrino cross section would enable a search for new physics effects such as testing the Lepton Universality (LU) of Standard Model in neutrino interactions. The detector is based on nuclear emulsion providing a sub-micron spatial resolution for the detection of short length and small "kink" decays. Therefore, it is very suitable to search for peculiar decay topologies ("double kink") of Ds→τ→X. In 2021, the first physics run of the experiment was performed successfully. The collected data corresponds to 30% of the aimed total statistics. In this presentation, the status of data taking and analysis will be presented.

Attendance type

In-person presentation

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