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Status of NA65(DsTau) data taking and analysis

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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 $Ds \rightarrow \tau \rightarrow X$. 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.

In-person participation

No

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