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Study of the aging of plastic scintillator detectors of the near detector complex ND280 of the accelerator long-baseline neutrino experiment T2K.

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The long-baseline experiment T2K (Tokai-to-Kamioka) is a world leading setup to study neutrino oscillations and neutrino properties. The experiment uses an intense beam of (anti-) muon neutrinos, which is measured by the near (ND280) and far detectors (Super-Kamiokande). The near detector complex is designed to study neutrino flux prior to oscillations and is an apparatus consisting of several sub-detectors. Plastic scintillator counters with the Hamamatsu MPPC readout are utilized as active elements of the detector sub-modules. The poster will summarize scintillator aging studies based on the data collected by ND280 from 2010.

Primary author(s) : Dr. IZMAYLOV, Alexander (INR RAS, IFIC CSIC); Ms. ANTONOVA, Maria (NRNU MEPhI, INR RAS); Prof. KUDENKO, Yury (INR RAS)

Presenter(s) : Ms. ANTONOVA, Maria (NRNU MEPhI, INR RAS)

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