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Assembly status of a new T2K near detector SuperFGD

The T2K experiment is a long baseline neutrino oscillation experiment aiming to discover CP violation in neutrino mixing. A new detector, SuperFGD, will be installed in the near detector to reduce systematic errors in the neutrino oscillation analysis. It consists of about 2 million 1 cm scintillator cubes, about 56,000 wavelength shifting fibers penetrating them from three directions, and an equal number of photodetector MPPCs. In this poster, we report the status of the SuperFGD assembly work at J-PARC, which started in October 2022.

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