

Performance test of optical interface for super-FGD in the T2K experiment

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Super-FGD is a part of the near detector (ND280) upgrade of the T2K experiment.

Super-FGD consists of about two million scintillator cubes read out along three orthogonal directions by wavelength shifting fibers, to realize fine granularity.

The light from the fibers is read out by sixty thousand Multi-Pixel Photon Counters (MPPCs).

Optical interface design for super-FGD between MPPCs and the fibers is important for the precise measurement of light yield.

It must be tested whether the design is validated or not in terms of light tightness, fiber coupling and so on.

We will present the result of the performance test of the interface and optimization of its design.

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