

TITUS- An intermediate near detector for Tokai to HyperKamiokande neutrino oscillations

The Tokai Intermediate Tank for the Unoscillated Spectrum (TITUS) is a water cerenkov near detector proposed in addition to the Hyper-Kamiokande experiment to measure the unoscillated neutrino beam from the J-PARC accelerator. The 2kton detector will be placed off-axis and optimised for the delta cp measurement. Studies to determine the improvement in sensitivity from a 0.1% Gadolinium doping and a magnetised muon range detector are currently underway.

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