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Isotropic light source for calibration of liquid scintillator neutrino detectors

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The isotropic light source for calibration of liquid scintillator neutrino detectors has been developed. The Monte Carlo simulation was performed to optimize its design. The satisfactory version of the source design was chosen. And the source was produced. It is currently being tested in the TAO detector. Also, the report covers the development of a primary particle generator which is able to launch large amount of photons in a single event. The generator provides flexible management of primary photons properties including their distribution type. In parallel, the report includes the results of model testing and a description of observed effects.

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