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The DUNE Photon Detection System

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The Deep Underground Neutrino Experiment (DUNE) beamline will be composed of a powerful neutrino beam, monitored by a Near Detector and a Far Detector (FD). The accelerator and ND are hosted at Fermilab (IL) while the FD is located at the Sanford Underground Research Facility (SD), at a distance of 1300km. The FD is being built 1500m underground with a modular design; the first two modules will adopt the Liquid Argon Time Projection Chamber (LArTPC) technology, each module will have 17kton total mass of liquid argon. The main physics goals are the determination of the neutrino mass hierarchy and a precision measurement of the cp-violating phase. In this talk the Photon Detection System (PDS) will be described from the base module, named XArapuca, to the integration in the first two modules of the far detector (FD1 and FD2).

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