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MicroBooNE photon detection system

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The MicroBooNE experiment is a liquid argon time projection chamber (LArTPC) at Fermilab.

Behind of its wire plane, the MicroBooNE photon detection system is located.

It consists of 32 8-inch cryogenic PMTs and 4 14.5-inch light guides coupled with 2-inch cryogenic PMTs.

These PMTs provide a trigger information through the detection of

the fast component of the scintillation light to the TPC, while light guides provide larger surface coverage with fewer channels

and they offer an option for a light detection system of future large liquid argon detector, such as LBNE. In this talk, I would like to describe the general features of the system and the current status.

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