

The Calorimeter System of the new muon g-2 experiment at Fermilab

The electromagnetic calorimeter for the new muon g-2 experiment at Fermilab will consist of arrays of PbF₂ Cherenkov crystals read out by large-area silicon photo-multiplier (SiPM) sensors. We report here the requirements for this system, the achieved solution and the results obtained from a test beam using 2.0–4.5 GeV electrons with a 28-element prototype array.

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