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## Development of a Scintillator-Tungsten Electromagnetic Calorimeter with Silicon Photomultipliers

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We are investigating the feasibility of a scintillator-tungsten electromagnetic calorimeter. We use silicon photomultipliers in our calorimeter module to detect light in scintillator tiles guided by wavelength-shifting fibers. We observe sensitivity to single visible photons in the photomultipliers, and can discriminate photons on a time scale of under 10 ns. We are currently studying the response of our module to cosmic ray muons, as well as the performance of the wavelength-shifting fibers.

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