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Progress on a UV Sensitive SiPM for Readout of the Fast Component of BaF₂ Scintillation Light

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A UV-sensitive SiPM incorporating an internal ALD filter is under development by a Caltech/FBK/*emphasized text*JPL group. The filter provides efficient detection of the 220 nm fast scintillation component of BaF₂ scintillation light together with strong discrimination of the larger 300 nm slow scintillation component. Measurements on a 6 mm × 6 mm device will be presented, including I/V curves, QE vs. wavelength and gamma ray spectra.

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