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Status of the SiGHT hybrid photodetector development

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The Silicon Geiger Hybrid Tube (SiGHT) is a novel photosensor designed for use in ultra low background experiments operating at low temperatures.

Thanks to an electric drift field, electrons, produced by the conversion of the incoming photons onto a hemispherical photocathode, are accelerated and focused onto a Silicon Photomultiplier which provides single stage electron multiplication.

The concept of SiGHT detector will be presented together with the results both from the feasibility study for its production and from the first developed prototype.

Primary authors: Dr PANTIC, Emilija (UC Davis); Dr WANG, Hanguo (UCLA); Dr PAGANI, Luca (UC Davis); Dr WANG, Yi (UCLA)

Presenter: Dr PAGANI, Luca (UC Davis)

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