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Developments in light readout for noble liquid experiments

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SiGHT stands for Silicon Geiger Hybrid Tube for light detection. Our goal is to construct a modern, high performance, low radioactivity photo detector working at liquid argon and xenon temperature. The idea is to replace the classical dynodic chain of a PMT with a SiPM acting as an electron multiplying detector embedded in a low-radioactive fused silica envelope. This invention would represent a major breakthrough for the experiments of direct dark matter search with noble liquids. The status of the art of the project as well as preliminary results will be illustrated in this talk.

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