

SiPMs: New photodetectors for intraoperative imagers?

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The Silicon PhotoMultiplier (SiPM) has recently come out as a very promising photodetector for many forthcoming applications. Its capability to detect and resolve single photons, along with its wonderful timing figure, small size, insensitivity to magnetic fields, low voltage operations, intrinsic protection from accidental exposure to ambient light, make it a strong candidate for many future implementations in several fields, including medical diagnostics. The basic features of this new sensor will be illustrated, as well as a few possible applications.

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