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Recovery Time and Double Hit Resolution Measurements of SiPMs Using a Double Pulsed Laser

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The Silicon Photomultiplier (SiPM) is an extremely versatile photo detector which can be used in various fields ranging from astrophysics, particle and nuclear physics to medical imaging. One of the important parameters of a photo sensor is the performance in high rate environments. In order to characterize the rate capability and the double hit resolution of SiPMs, we performed an experimental study to determine the cell recovery time for various sensors of different manufacturers.

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