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A Quality Control of High Speed Photon Detector

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High speed photon detectors are one of the most important tools for observations of high energy cosmic rays. As technology of photon detectors and its read-out electronics improved rapidly, it became possible to observe cosmic rays with time resolution better than one nano-second. To utilize such devices effectively, calibration using a short-pulse light source is mandatory. We have developed a pulse laser of which width is 60 ps and peak intensity is adjustable up to 100 mW. This pulse laser is composed of a simple electric circuit and a laser diode. Details of this pulse laser and its application for quality controls of photon detectors are reported in this contribution.

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