

## IEEE NPSS School of Application of Radiation Instrumentation Dakar -Senegal



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### Complementary Lecture #2 :Photodetectors : PMT to SIPM

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Scintillator is one of popular detectors on radiation measurements. Energy deposit in a scintillator causes scintillation light. Photo detectors are key component of the measurements. Scintillation light is very weak. Therefore, photo detectors are necessary to be highly sensitive. They may need to detect a small number of photons. The signal caused by one photon is too small to be amplified by electric circuit. Photo detectors for scintillators are required to “multiply”. Photo Multiplier Tube (PMT) and Silicon Photo Multiplier (SiPM) will be introduced. The feature of those “multiplication” are also discussed.

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