Training on quantum detection, single-photon imaging, SiPMs, SPADs

Contribution ID: 8

Type: not specified

## SiPM Simulation and Design Lab (Training Session)

Thursday 23 May 2013 14:00 (3h 30m)

Silicon photomultipliers (SiPMs) are an alternative to photomultiplier tubes because of their robustness to magnetic fields, compactness, and low bias voltage. To take advantage of the merits of SiPMs, the deep understandings of SiPM characteristics are required. In this workshop, we will model and simulate the SiPM using Cadence spectre simulator to investigate the SiPM characteristics as well as building the schematic, drawing layout and verifying the design in Cadence design environment. We will also simulate the SiPM behavior assuming that a gamma photon hits a crystal scintillator and produce various number of photons to be detected by small cells in the SiPM.

**Presenters:** Mr VEERAPPAN, C.; VENIALGO, Esteban (TU Delft); MANDAI, Shingo (TU Delft) **Session Classification:** SiPM Simulation and Design Lab (Training Session)