



Contribution ID: 195

Type: **Poster Presentation**

Waveform analysis of SiPM signals with DRS4 board

We are using DRS4 digital oscilloscope board for time-of-flight (TOF) applications in Fermilab. We developed a model to perform waveform analysis of the DRS4 data taken with silicon photomultipliers. The applications range from Cherenkov TOF system to TOF positron emission tomography. The unified approach allows to achieve high time resolution for signals with width from few to hundreds nanoseconds.

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Track Classification: Photon Detectors