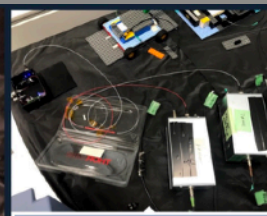
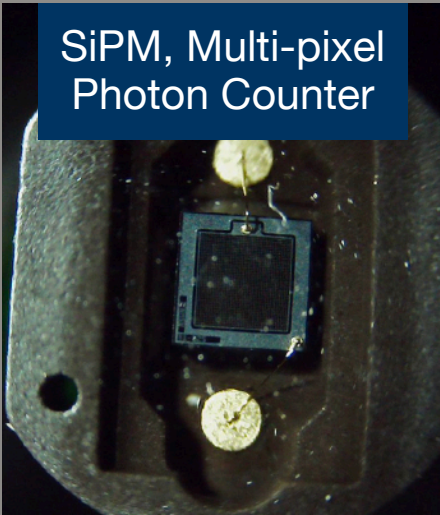


SiPM, Multi-pixel
Photon Counter



Fiber beam splitter, FC
coupler, optical mounting

Plastic scintillator bar, WLS,
optical connector, circuit board

MPPC array, AIT board as bias supply
and amplifier

Single MPPC, scintillator
cubes, WLS, lego

NIM modules, oscilloscope,
DRS4 as ADC, DC power supply

Hardware Camp Fast & Low-Light Detection



Neutrino lab, ICISE, Quy Nhon, VN



Mar. 02-08, 2025

Are you students looking to learn important technical skills
in particle and nuclear physics and beyond?



In this context, "*fast*" refers to nanoseconds, while "*low-light*" refers to a few to hundreds of photoelectrons. The goal is to provide students with **hands-on experience with single photo-resolving photomultipliers (siPM and PMT), plastic scintillators, light sources, electronic, and data acquisition (DAQ) devices** used in *particle and nuclear physics experiments*. This technique has **numerous civil applications**, including but not limited to *Light Detection and Ranging, Positron Emission Tomography, Fluorescence Spectroscopy, Particle Counter, and Quantum Computing...*

Website: <https://ifirse.icise.vn/nugroup/hardwarecamp/index.html>

Contact: Dr. Son Cao, cvson@ifirse.icise.vn