Ideasquare Darkroom - The Beginning





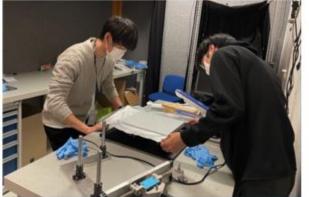
 Darkroom at ideasquare, first built to test 400 8-inch Photomultuplier Tubes for WA105-ICARUS project within CERN Neutrino Platform Currently Darkroom equipped with Monochromatic light source used to study:

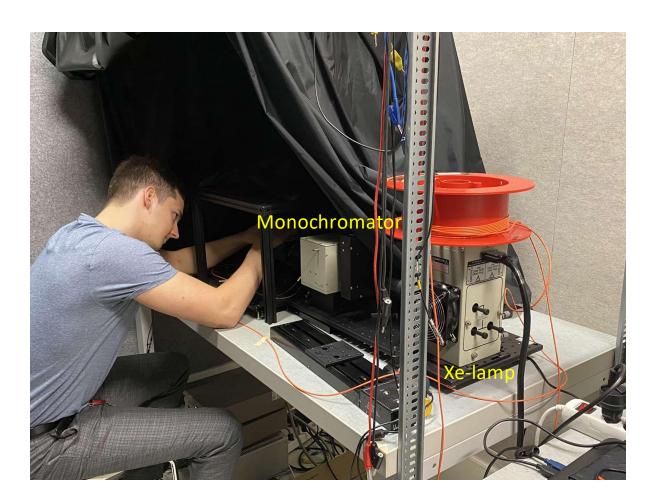
- Photon detection efficiency of Silicon Photomultiplier
- Light transmission
- Scintillation emission spectra

It is also served as installation facility for SND and FASERNu experiment during first and second LHC runs.



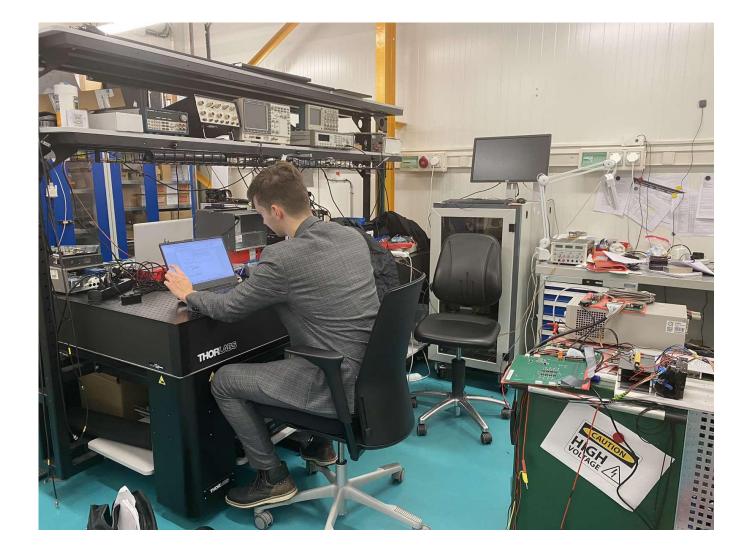






Light Lab at ideasquare

- Equipped with Thorlabs optical table
- It served to CERN Neutrino Platform as a clean room from 2014 to 2020
- R&D projects utilize ideasquare infrastructure:
 - WA105-ICARUS Cosmic Ray Tagger System
 - Alternative photon detection system for ProtoDUNE
 - Feasibility study of power-over-fiber technology
 - T2K SuperFGD
 - Cherenkov Telescope Array project by Geneva University
 - ATLAS RPC group
 - Testing photosensors for Neutrino project
 - Testing 3D printed plastic scintillators
 - Testing Hyper Kamiokande electronics



Providing expertise in fiber/photosensor technologies.