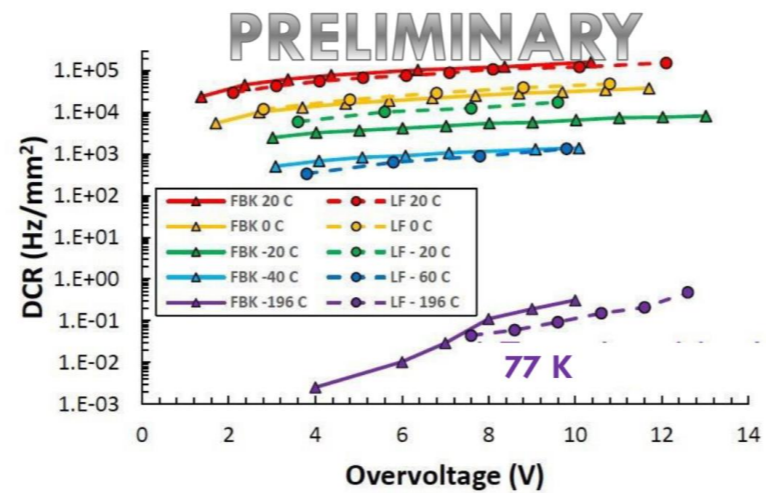
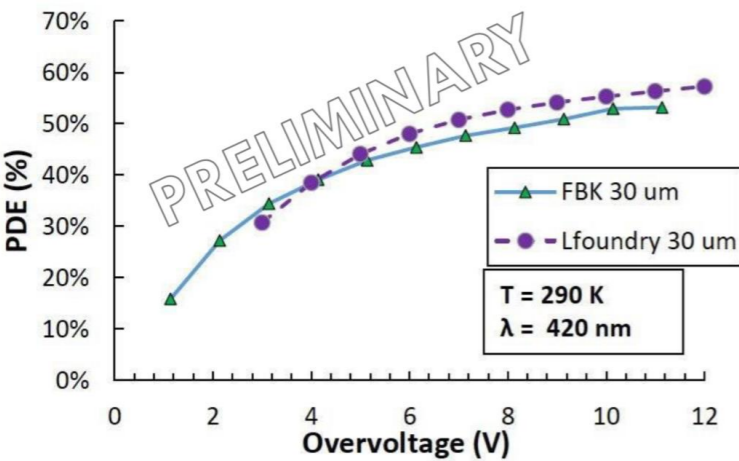


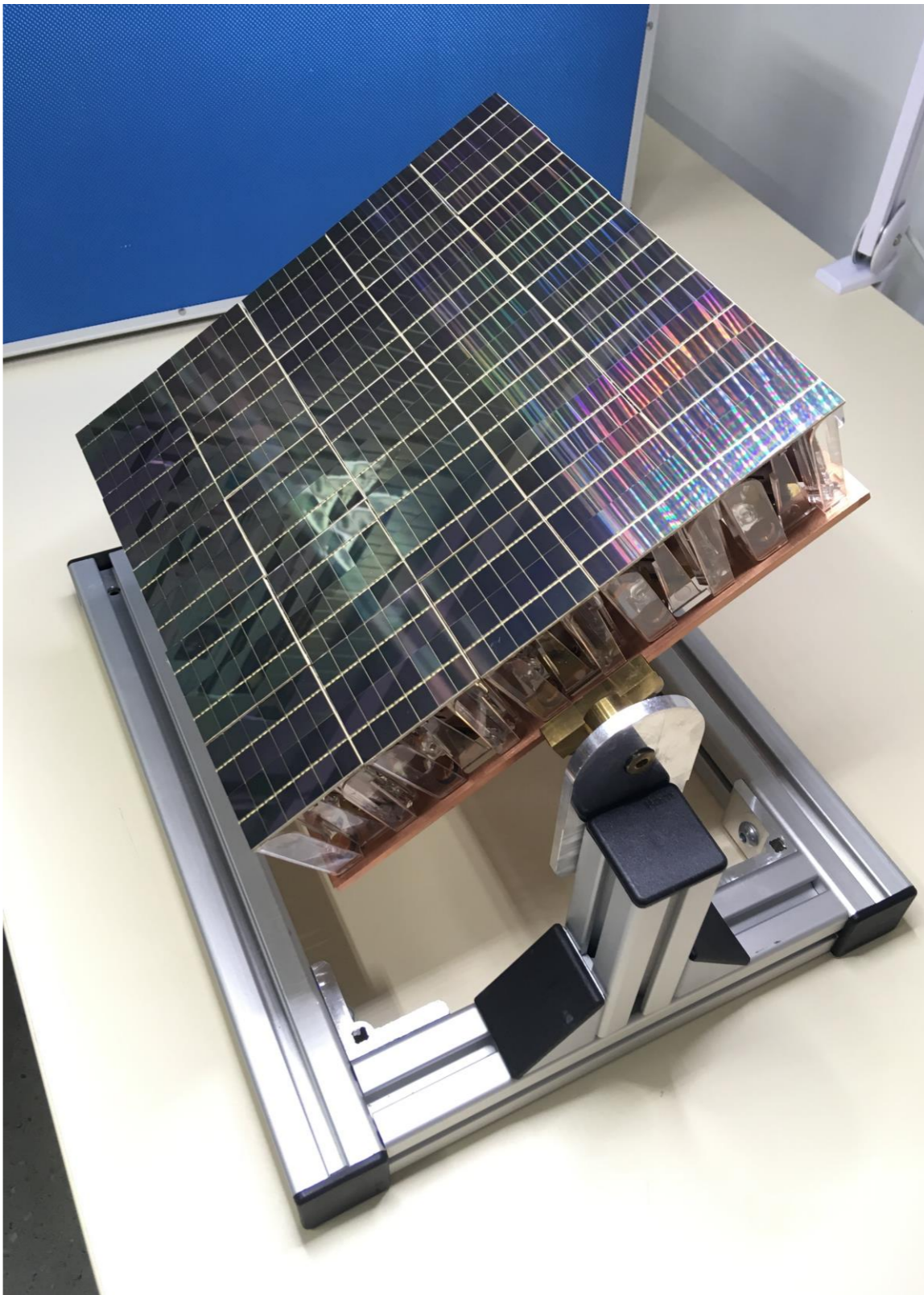
Cryogenic Photosensors

Cryogenics Large Area Sensors for Photon Counting

- The Photo Detector Module (PDM) is the solid state equivalent of a 2 1/2" Photo-Multiplier
 - 24 large SiPM sensors read by four cryogenic Front-end transimpedance amplifiers
 - SiPMs technology by FBK transferred to LFoundry
 - First devices from LFoundry are at present under test. They are quite promising.



Bari 4/10/2019 Alessandro Razeto -- Laboratori Nazionali del Gran Sasso



- First prototypes of a 5x5 PDM matrix assembled
 - operated in a liquid Argon TPC in CERN
 - Sensitive area ~ 25 cm x 25 cm