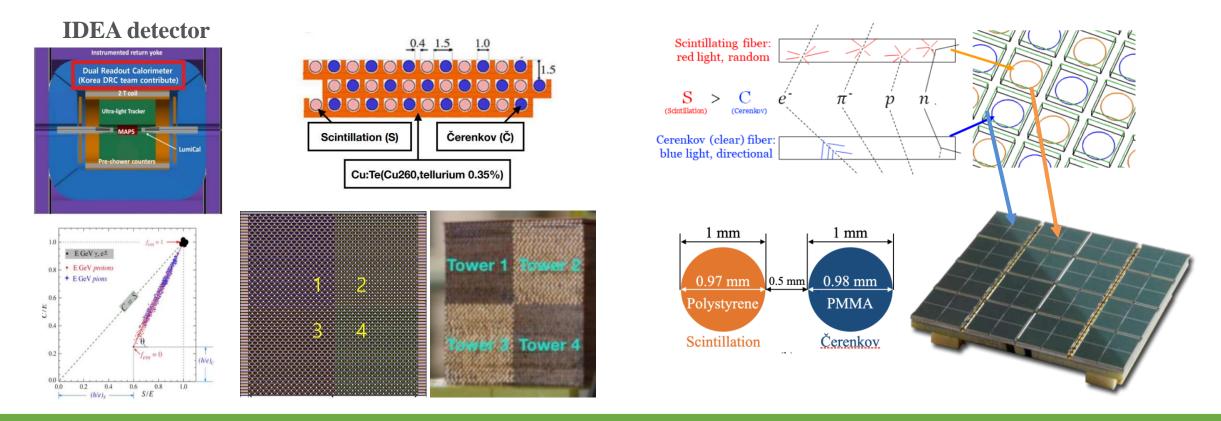
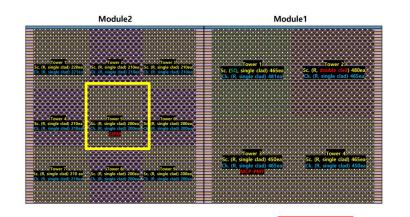
Introduction

- The dual-readout calorimeter is high-quality energy measurement for both EM particles and hadrons.
- The compact size of SiPM makes it possible to couple individual fibers in the calorimeter and the excellent position and energy resolution can be obtained.



SIPM for TB2022 DRC module

• Two DRC modules for Test Beam 2022 & SIPM channels, SIPM electronics board



Module#2				
	Tower #1~4 and #6~9	Tower #5	Remarks	
Scintillation fibers	Round . / . Single cladding	Round / Single cladding	They will be mounte d in the 4 th quarter of this year.	
Cherenkov fibers	Round / Single cladding	Round / Single cladding		
Readout detector (416 ch)	16 PMTs	400 SiPMs	All PMTs have been delivered.	
Model name	R11265-100	S14160-1310PS		

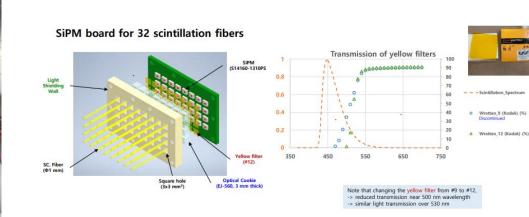
SiPM	Photo- sensitive area	pixel size	photo de efficienc		number of pixels	photo
S14160- 1310PS	1.3x1.3 (1.69 mm²)	10 µm	~15% at 400 nm	~17% at 550 nm	16675	

We can change the SIPM Gain suing resistor & OP Amp one by one channel

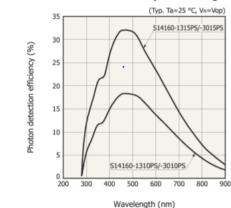
SIPM Assembly with DRC Module

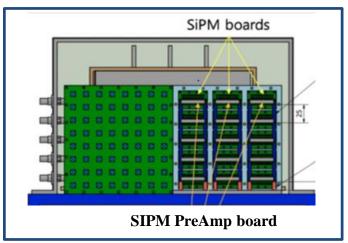
- Assembly the Fibers & SIPM Frame using epoxy, Attached SIPM & Fibers







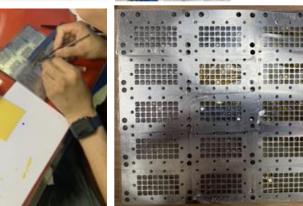




Readout part



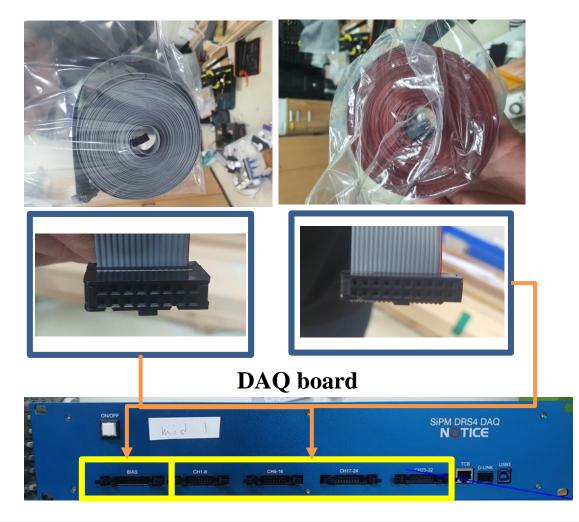




2022 CEPC Workshop (Oct 26)

Connection of SIPM & DAQ system

• We connected the SIPM electronics boards & DAQ system using cables..

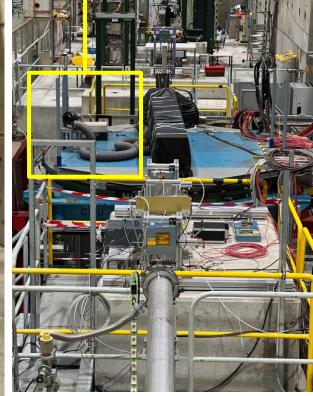




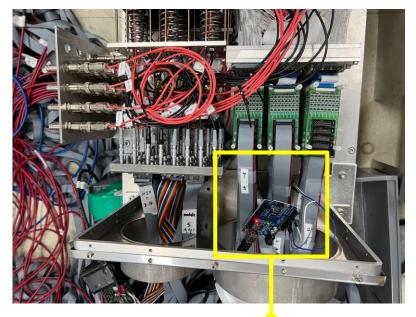
Connection of SIPM & DAQ system

• Operation & Data taking SIPM at TB2022.





Ventilation cooler



Temperature sensor