

Plans for the EMCal of ZDC

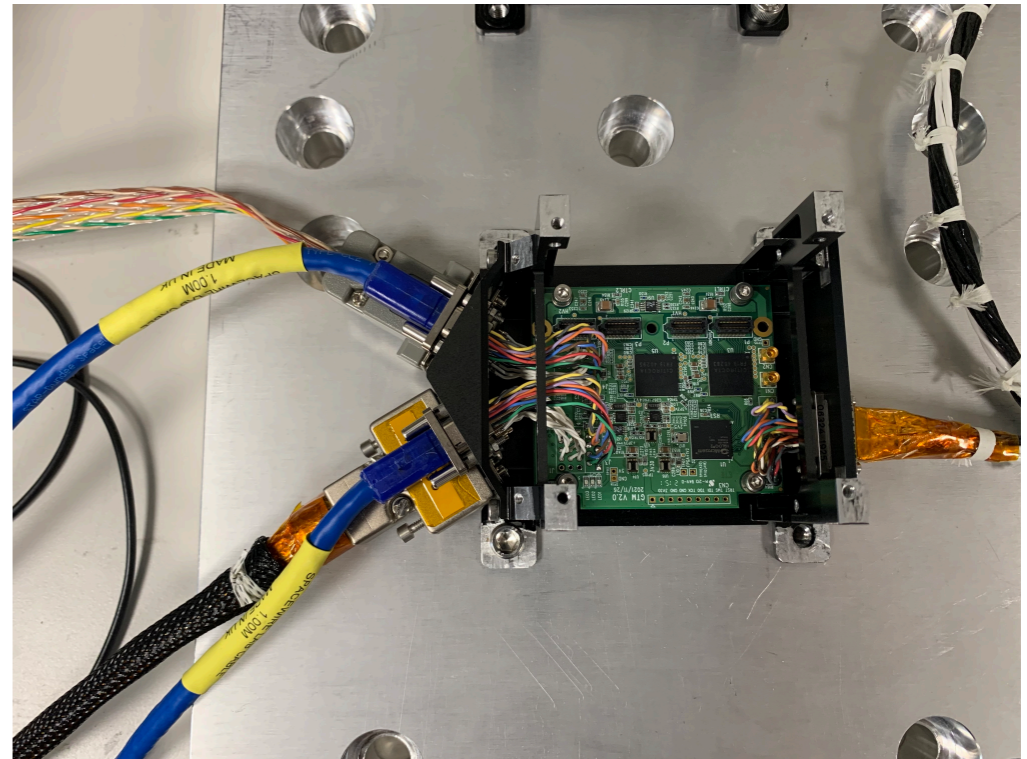
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Plans

- place the order for LYSO crystals
 - CHiP is funded again so the fund for building a prototype EM calorimeter with LYSO crystals is in place
 - need to determine the cross section area
 - worry: large LY of LYSO so that saturation → smaller cross section can be better (6mm x 6mm ?)
 - a G4 study is underway to estimate the energy deposit with the beams at Tohoku university
- purchase SiPM
- design an adapted board

Readout board

- Designed by Chih-Hsun Lin of Academia Sinica
- 128 channels
- trigger:
 - self-triggered
 - can accept external timing signal → need to be studied
 - may accept external trigger → need to be studied



Other items

- CAD design: Yu-Shyang Shiao
- G4 simulation: Shao-Yang Lu
- radiation study: Pei-Yin Kuan