

EBU for scecal

T.Takeshita (Shinshu) for scecal

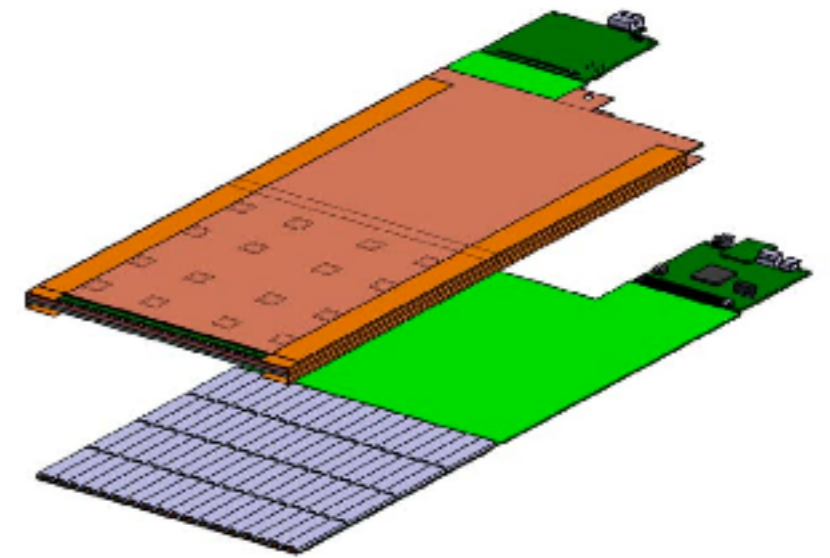
Ecal Base Unit project

structure

design

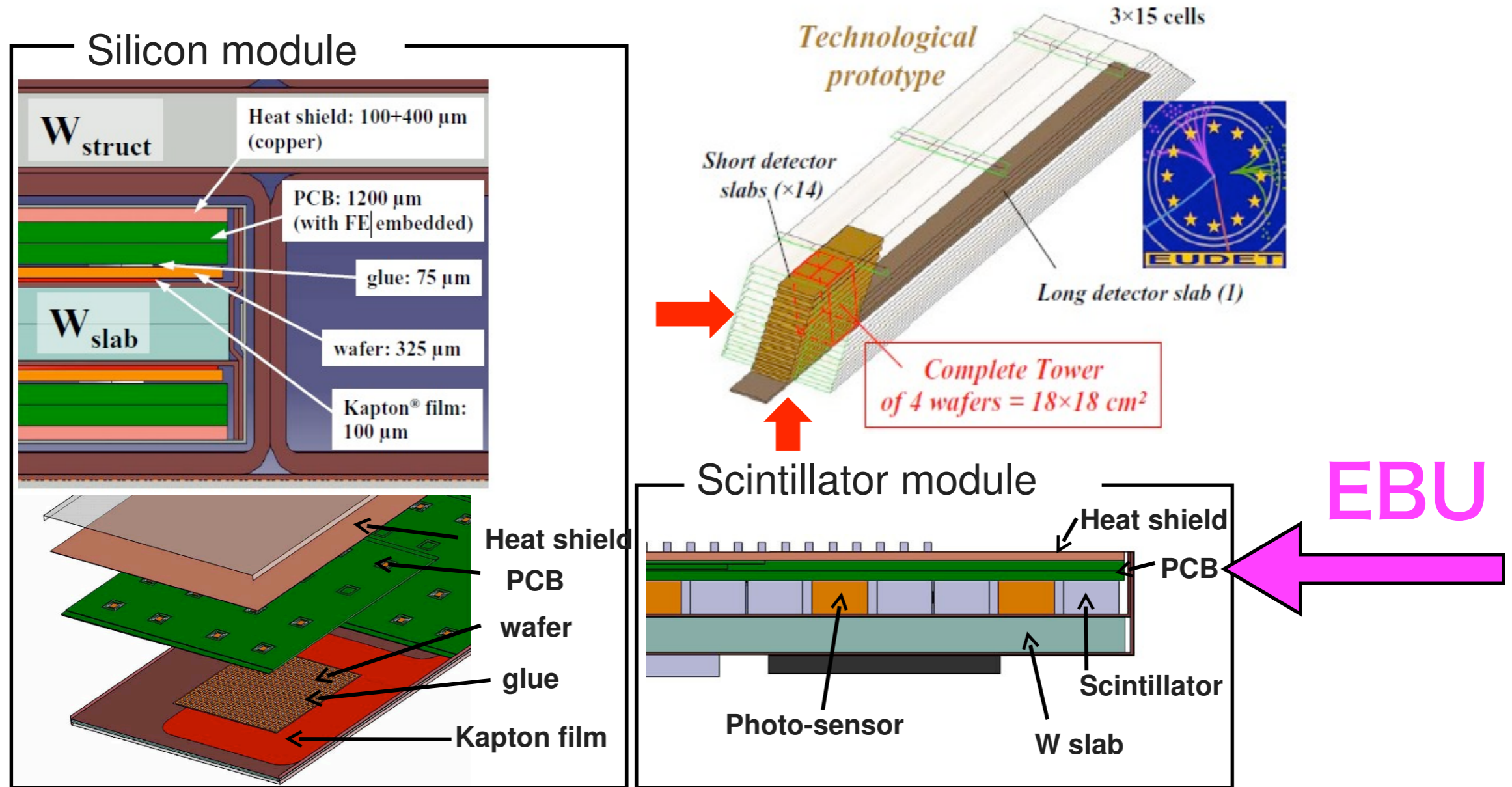
scintillator (5mm) performance

plan (hope)



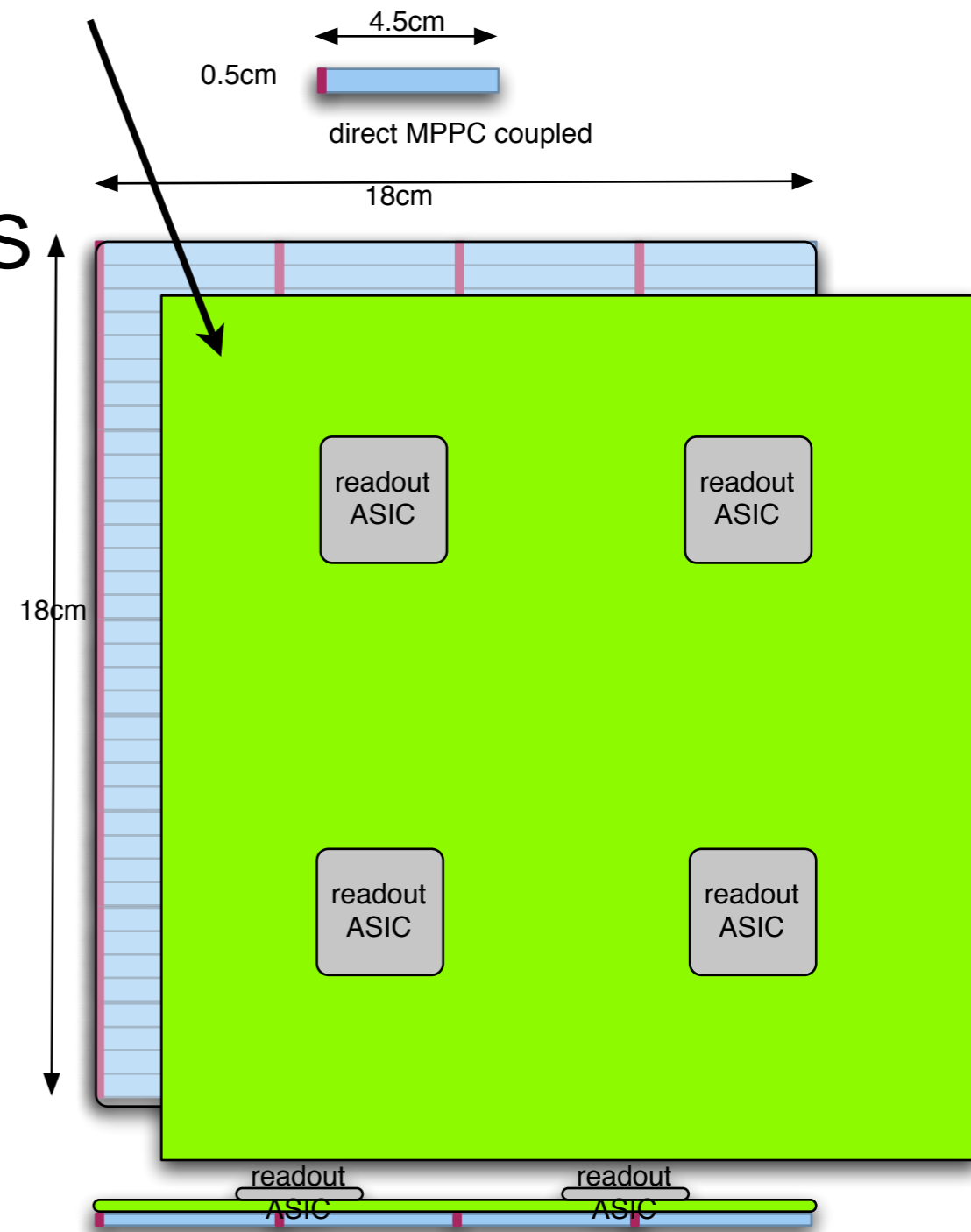
EBU

into The EUDET prototype module



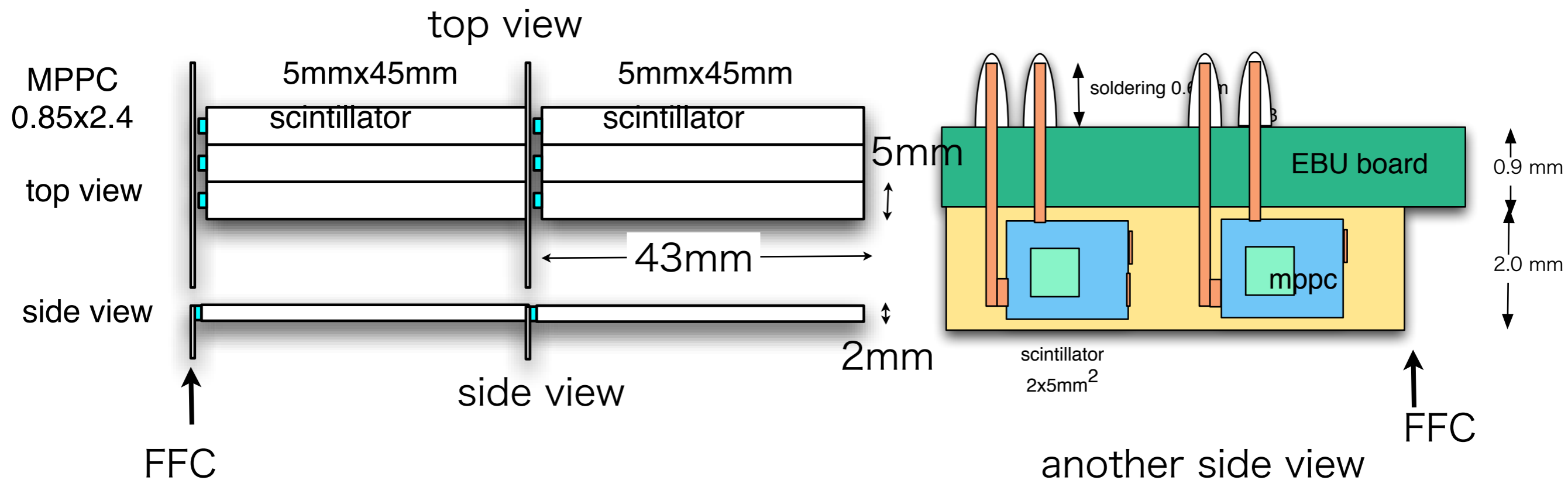
design

- EBU : Electronics part by Mathias (DESY)
- 5 x 45 x 2 mm scintillators
- at Shinshu
- need information for
- detailed in mechanics
- by Marc



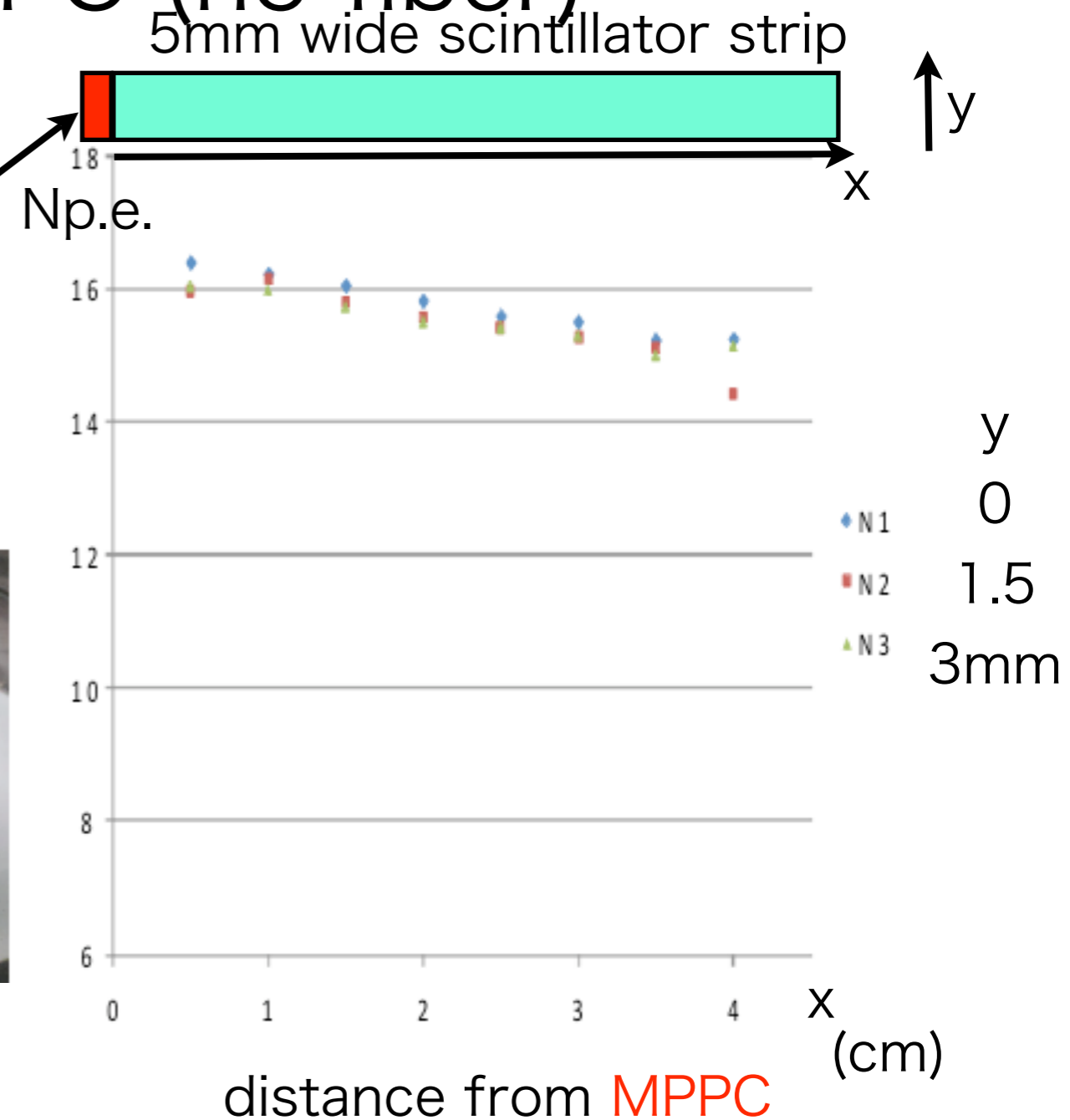
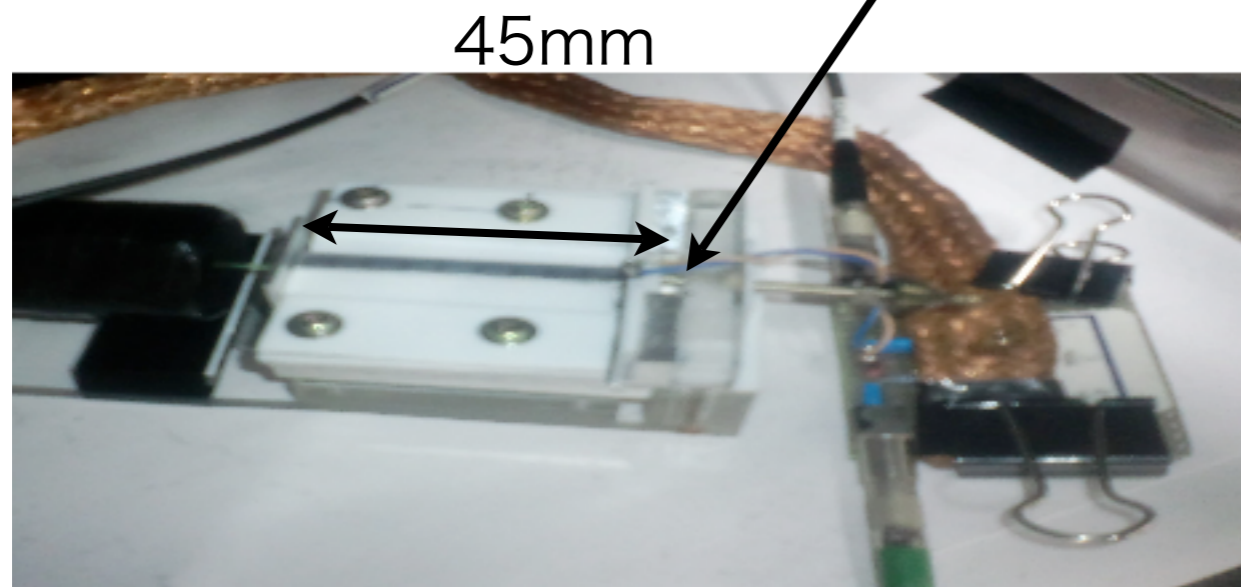
EBU to scintillator

- photosensor MPPC mounting
- direct coupling to scintillator
- 8 Flexible Flat Cable (FFC) are ordered
- 180mm long, 2mm height & 0.3mm thick
- 36 MPPCs soldered in a FFC



scintillator

- 5mm wide, 45 mm long & 2mm thick
- direct attached MPPC (no fiber)
- good homogeneity
- sufficient photons



time line for EBU

with scintillator strips integrated

- 2010-2011 spring : design
- 2011 ~ summer : production
- 2011 summer~autumn : test at Japan
- 2011 autumn : install in EUDET-ECAL
- 2011 -2012 test in EUDET module
- 2012 **Beam test in multi-layer structure with silicon modules**