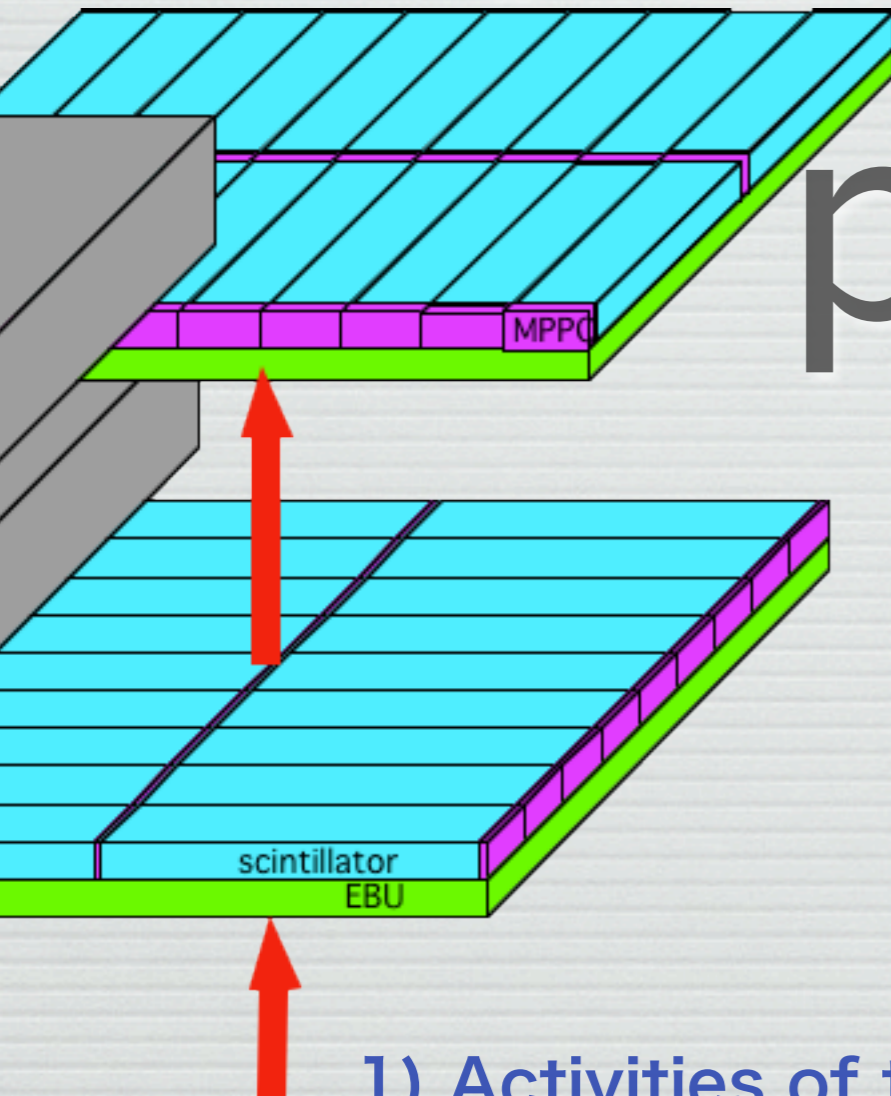


Scintillator ECAL

perspective

Tohru Takeshita (Shinshu)

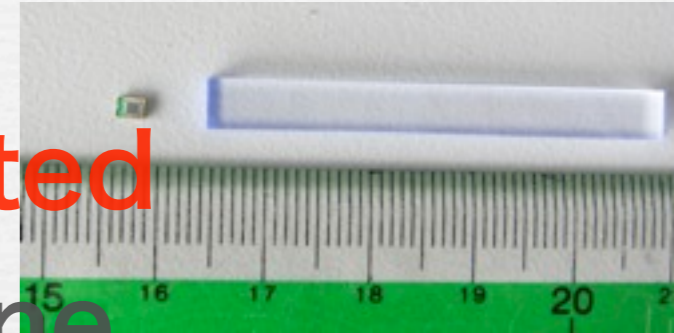


- 1) Activities of the next year (or so): R&D, construction, bench tests, design work, simulation studies...
- 2) Plans for publishing test beam results
- 3) Plans for test beams after the FNAL/CERN shutdowns
- 4) Overall goals of the project (given the possibility of a Japanese Higgs factor): milestones, timelines...

Activities of the next year

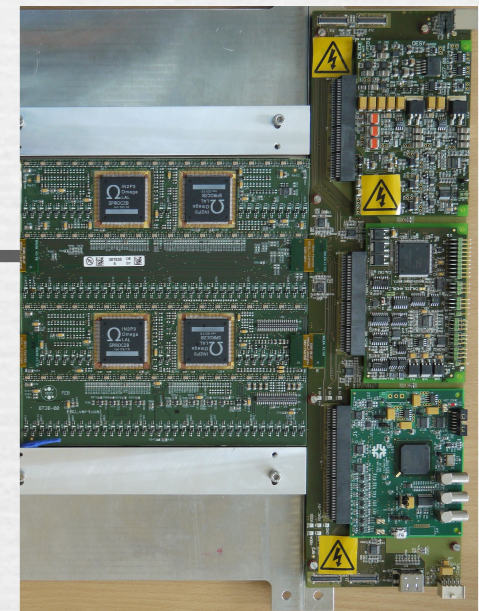
2013 MPPC and scintillator development

- establish technology for **integrated read out system** with sensor plane



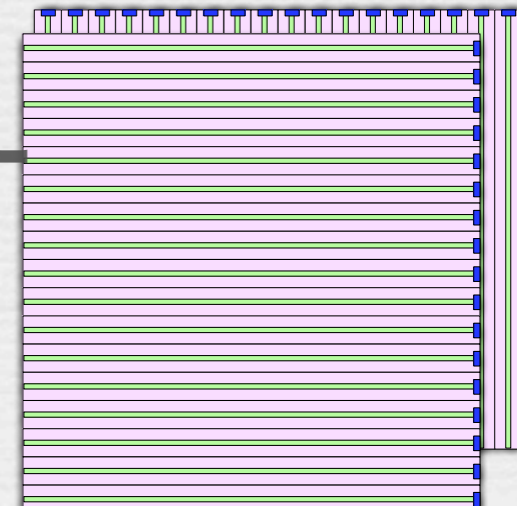
- beam test** at DESY July with SiECAL

- hope combined read out...



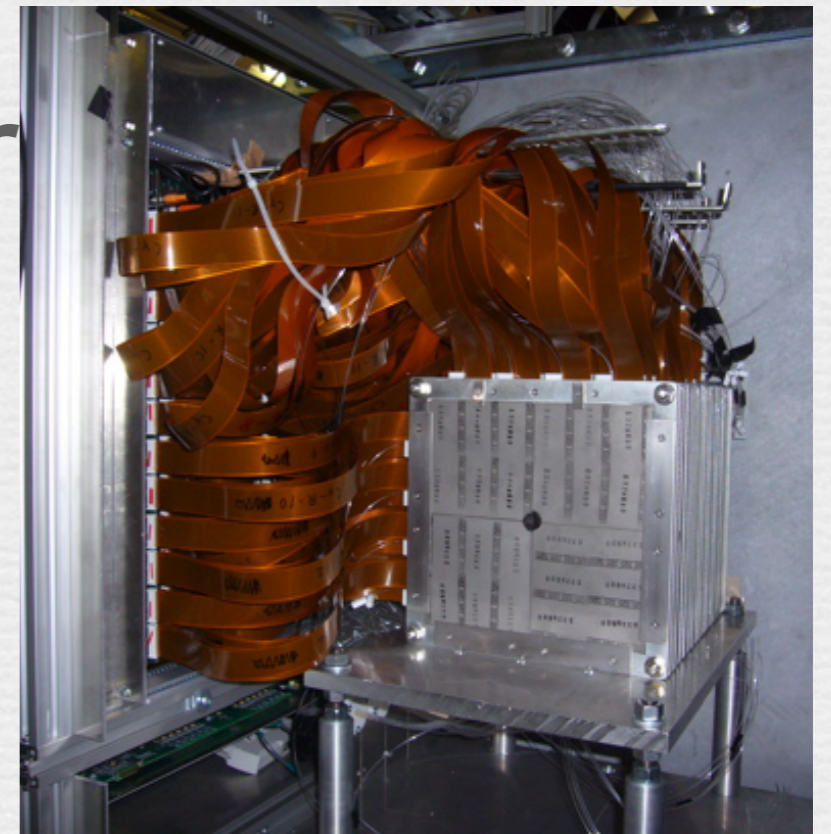
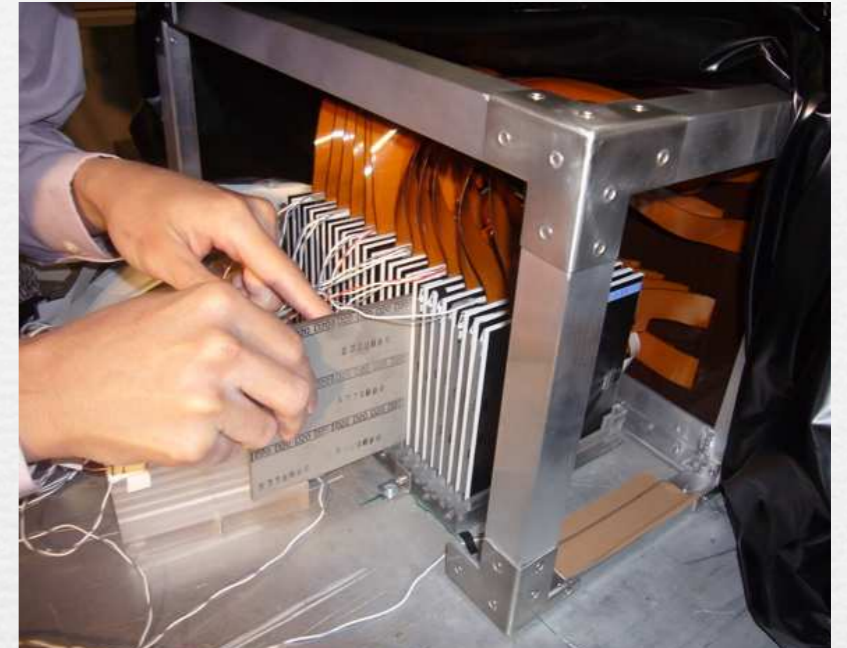
2014 simulation work is undergoing

- construction of a small scintillator-strip HCAL module and **beam test** supported by JSPS budget



Plans for publishing test beam results

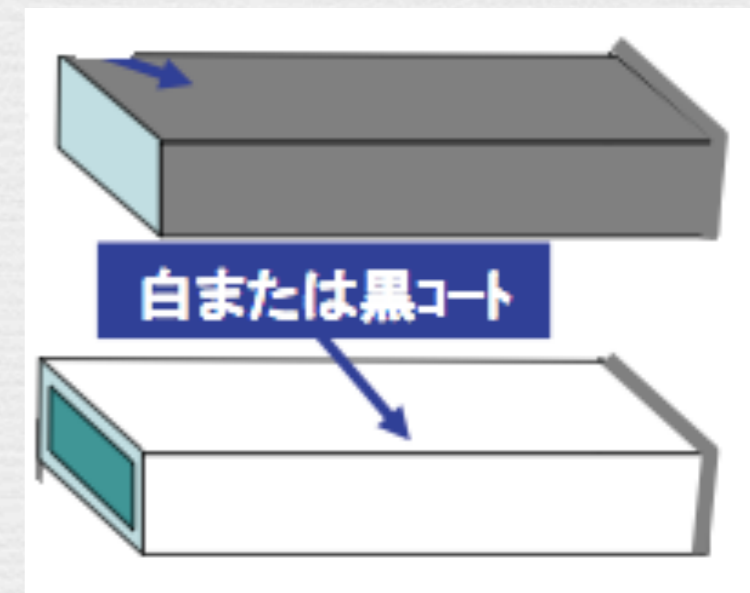
- 2007 DESY beam test
 - will be published soon
- 2008-2009 FNAL beam test
 - will be published in this year
- 2012-2013 DESY beam test
 - depends on the results



Overall goals of the project

fixed design and plan

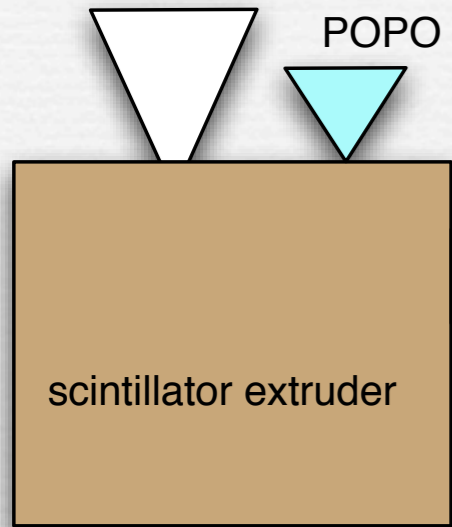
- construction ready in two years
 - including scintillator production
 - photosensor test
 - integration into read out electronics
 - module production
- rooms for modification
 - scintillator & photosensor configuration



scintillator-ECAL factory

poly-styrene pellet

POPO pellet

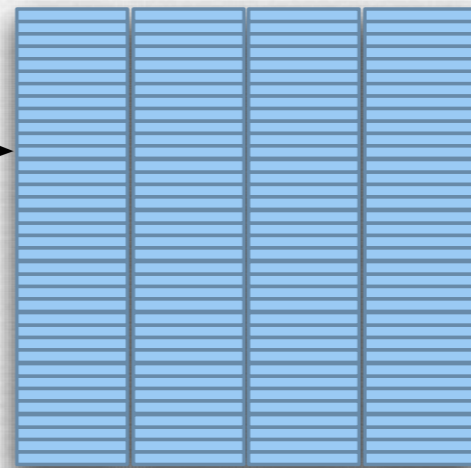


die

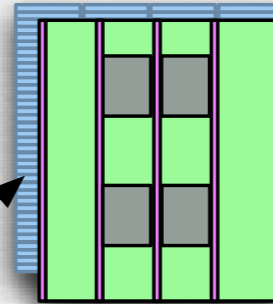
scintillator log strip

reflector film

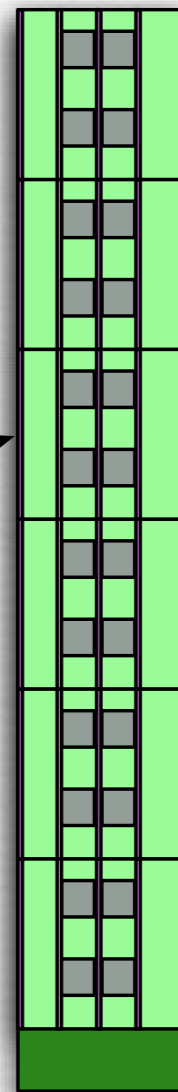
cutting machine



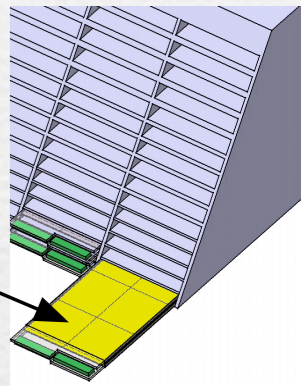
module unit
0.18mx0.18m



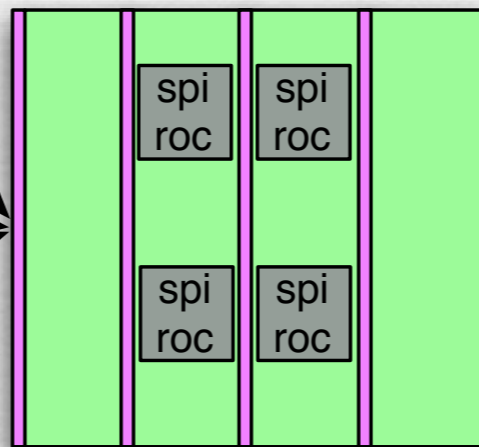
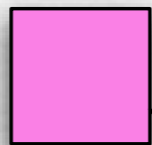
ladder unit
1.8mx0.18m



drawer



MPPC



spiroc

read out ASIC

read out PC board

