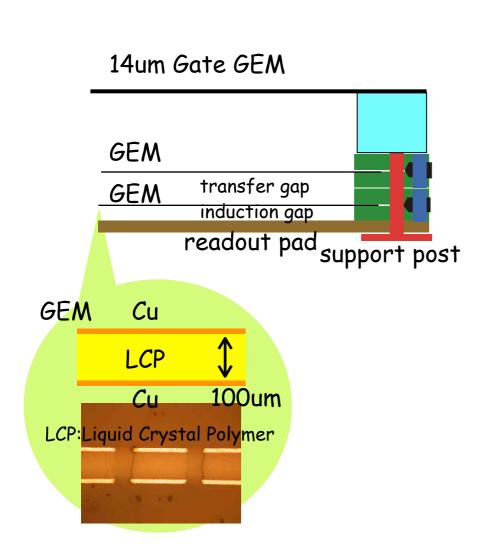
Towards the Next Module as AsianTPC group

Next module:

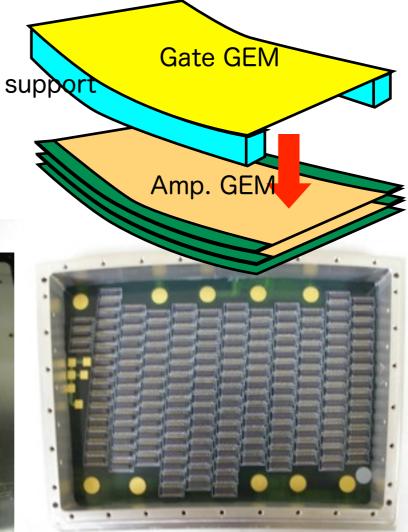
```
using sAltro16
      corresponding cooling system
      probably with PowerPulsing
      (integration of readout)
    though readout channel is a half of the module
proper gate equipped on the module
idea to reduce module boundary distortion
stable operation
```

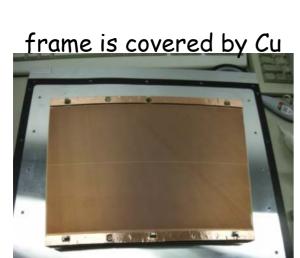
System integration is the most important point to present a readiness of LCTPC

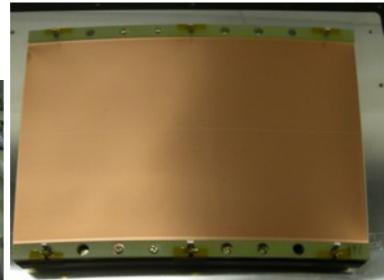
Concept of Asian Module:



no support frame in r direction double GEM + GEM-type Gate







Problems:

No side frame : mounting structure frameless structure give us real gain ??

No answer yet!

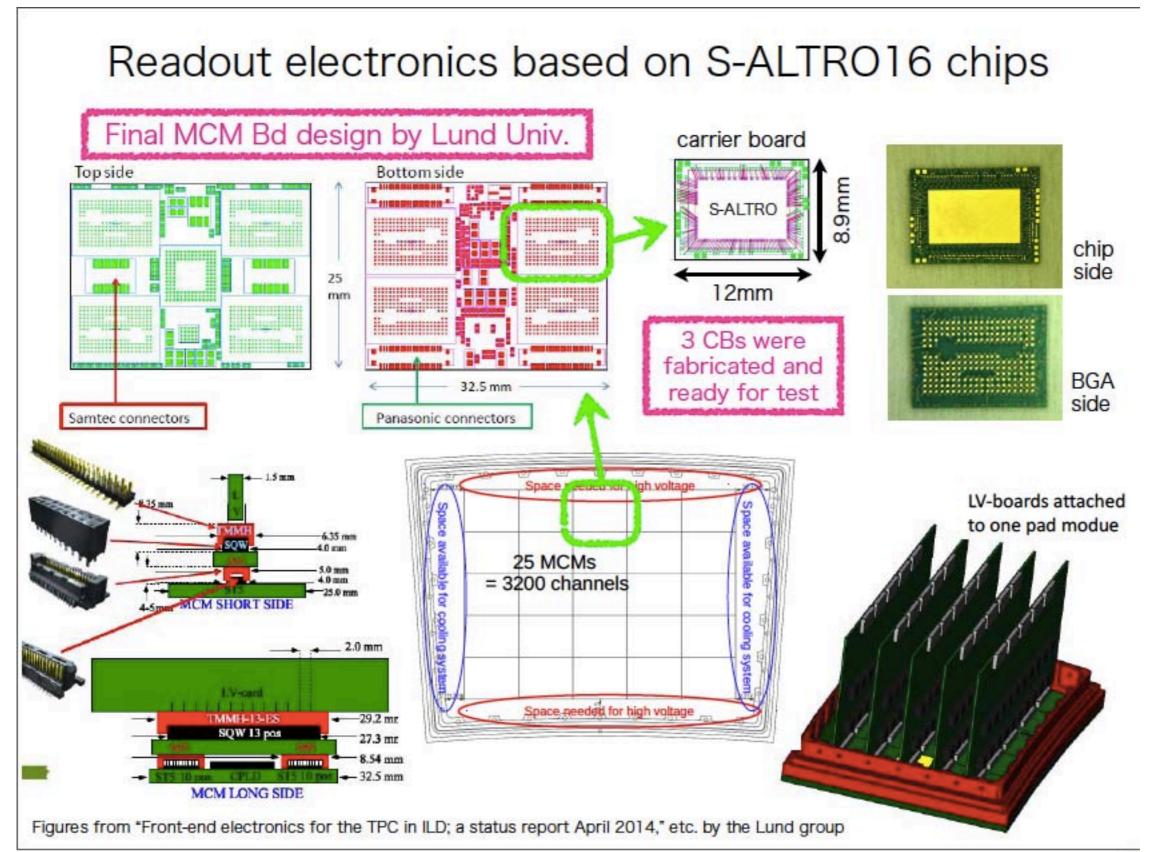
distortion / inefficiency

two module test w/Laser

get answer w/in two years

GEM stretching
wide adjustability - complicated adjustment
no reference point
complicated HV connection
GEM itself was not so tough or seg. was improper

Next module design using sAltro16 LP1.5?



before designing Next module

need to study electronics & cooling assembly cooling test board with MCM layout layout of high conductive material layout of cooling pipe/pipe routing LB board HV

in order to do this

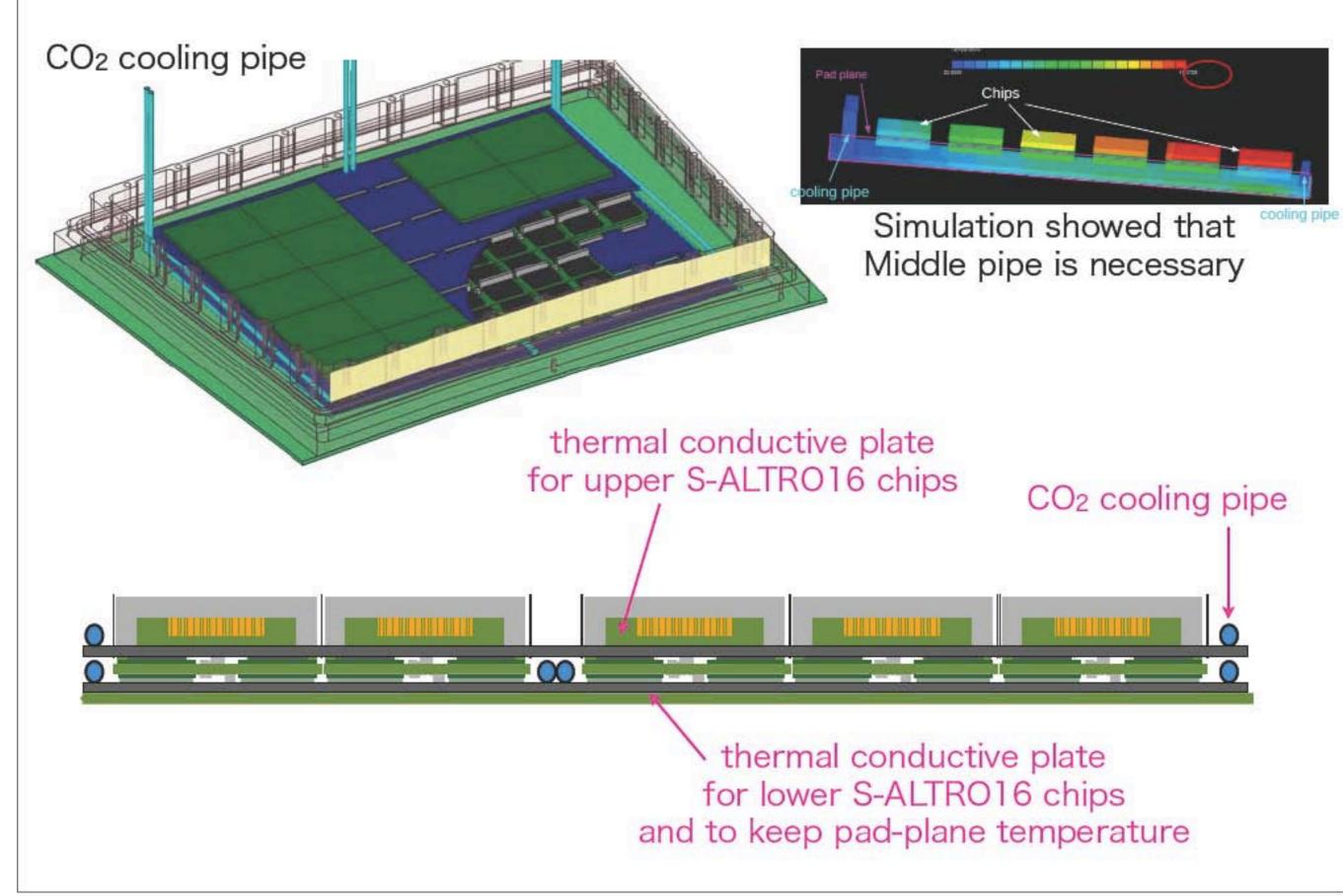
we need to know how to connect MCM to PCB

exact geometry of signal end on PCB

I hope this is already fixed in CM

we use BGA

Proposed Cooling for S-ALTRO16-based electronics

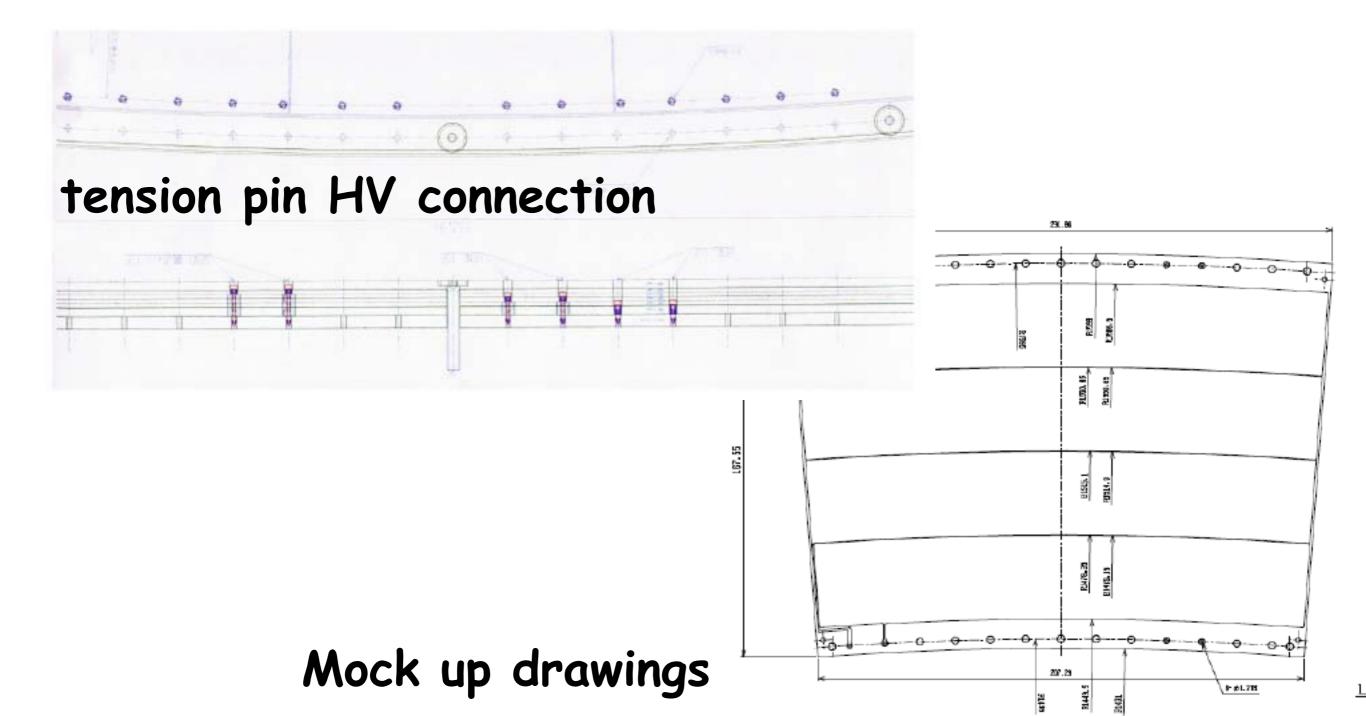


Pad size/layout
same as LP1? though pad length is not optimized
routing? only a half of them is readable
which area we will be read?

GEM stretch

new aggressive method was proposed 2 years ago but not realized yet

we have to accelerate this test to be applicable to next module



Gate will be reported by Katsumasa

Honeycomb (300um pitch/30um lib) is sure (150/15) is very difficult now not too fragile to handle

electron transmission ion blocking power not to deteriorate the resolution