

LP cosmic Trigger

Hands on MPPC:

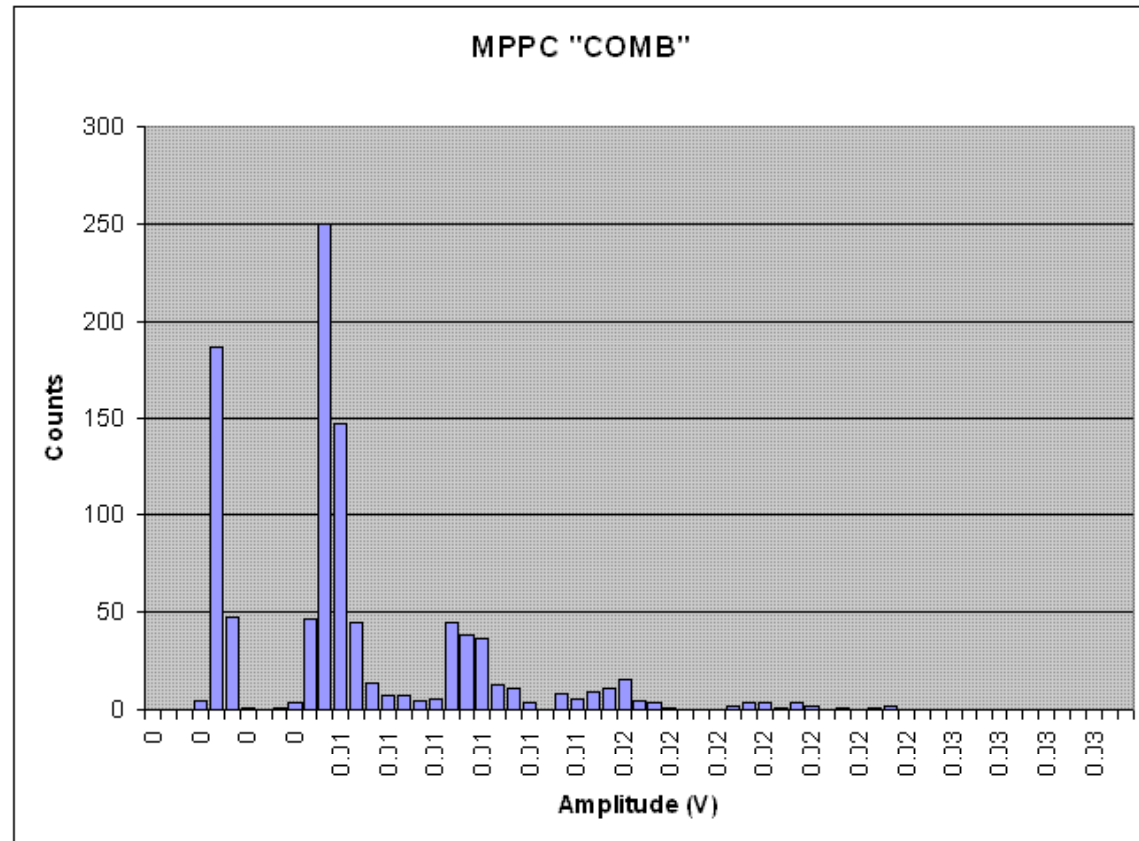
See 1,2,3,... photons in obscurity clearly

Signal consistent with 20 p.e. per fiber end, but small even for large Vbias

Made 2 amplifiers (gain 25 each) + 1 summer (gain 4)

Good signals but unstable: amplifiers oscillate

Need to study the problem to find a robust solution



## Mechanical assembly of 1 module (3 slabs)

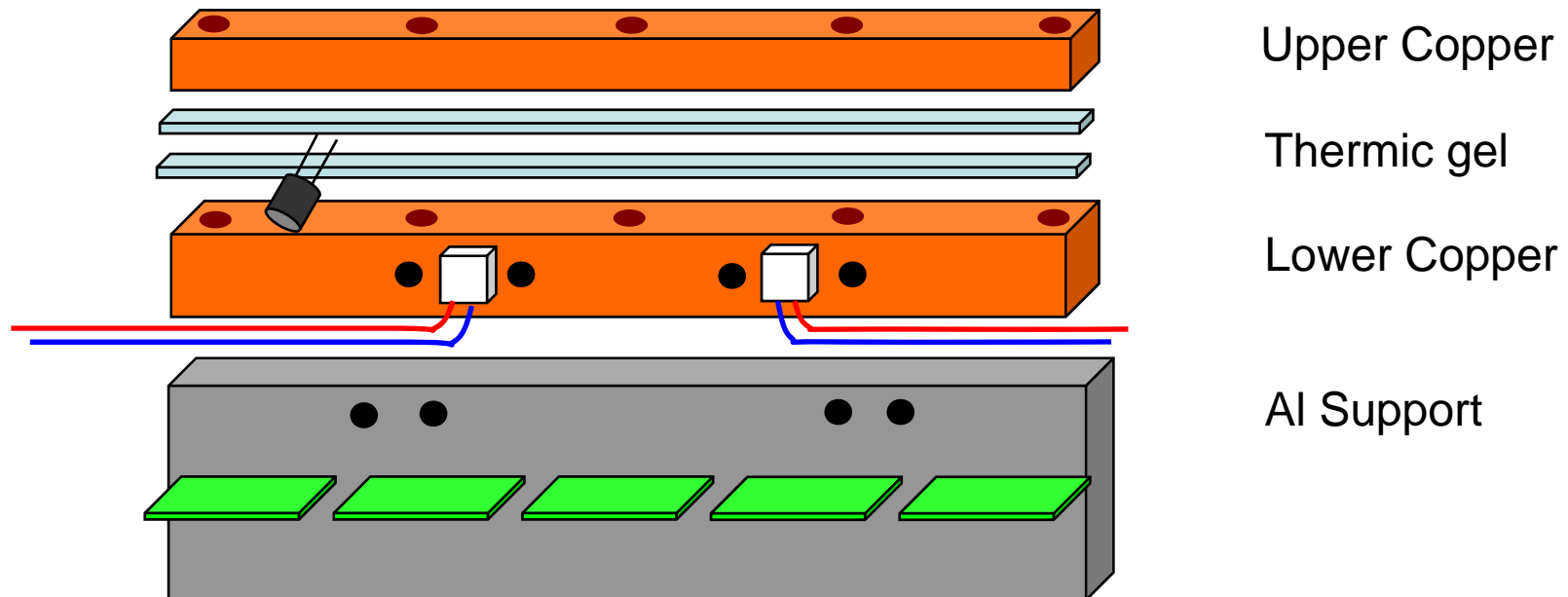


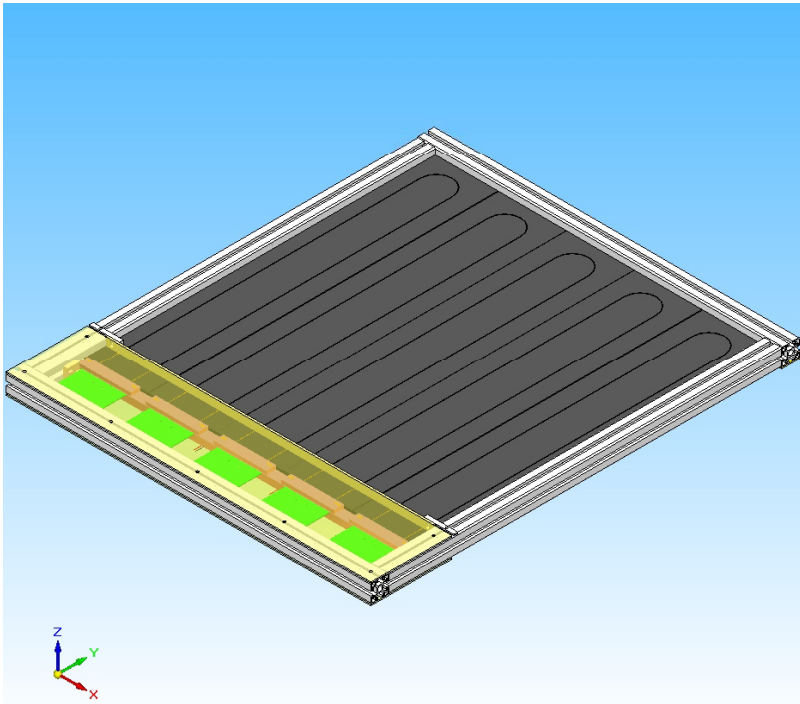
# Thermics (J.M. Reymond)

Based on thermoelectric coolers (TEC) (Peltier devices) and hybrid HYTEK controller

HY5610 controller: 12v, +/- 2Amps, Stability 0,01°C

Proportional / Integral Control





## Conclusion

Mechanics and cooling almost ready.

Need to solve electronics problems (card design)

