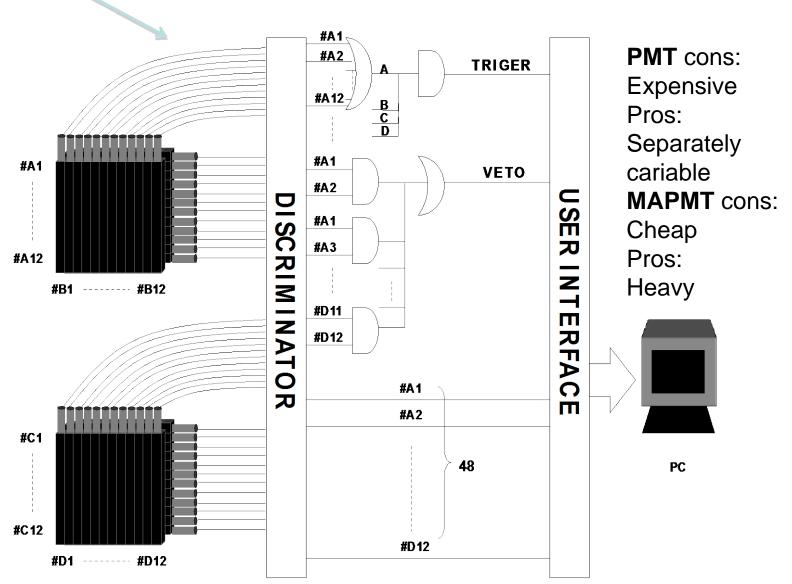
Scintillation based detectors with MAPMTs DAQ

WLS fibers or signal cables

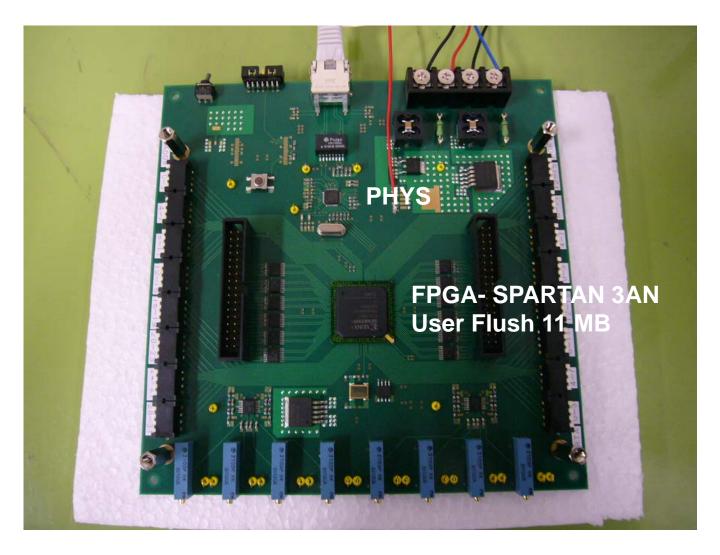
PMT: PMT size and acryl light guide makes detectors bigger

MAPMT: fiber curvature makes them bigger



regular 2 inch PMTs or MA PMTs

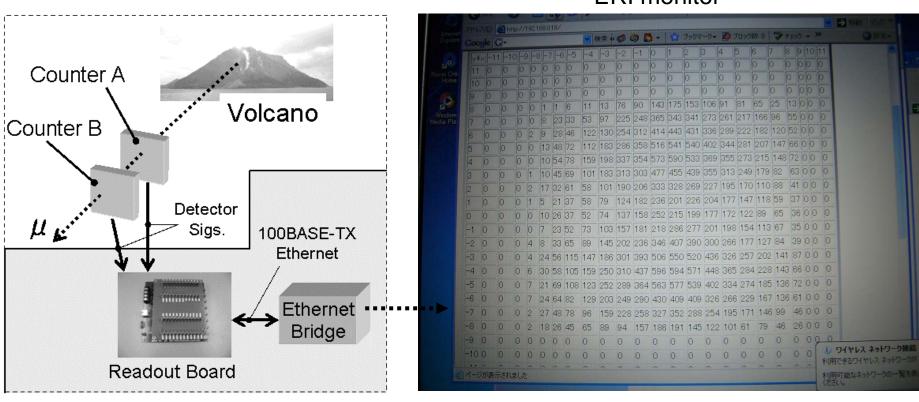
Muon readout module



Space and power effective readout module

Data Transfer

ERI monitor



Power consumption

- 300mW for FPGA
- 200mW for comparator
- Regulator → 3.3 V -> 5.0 V 2000 mW
- Regulator → 100 V -> 5 V 2000 mW
 TOTAL 4.5 W

Highly efficient regulators will make it less than 900 mW In total consumption.

In 2012 it will be made.