

The SPMT system

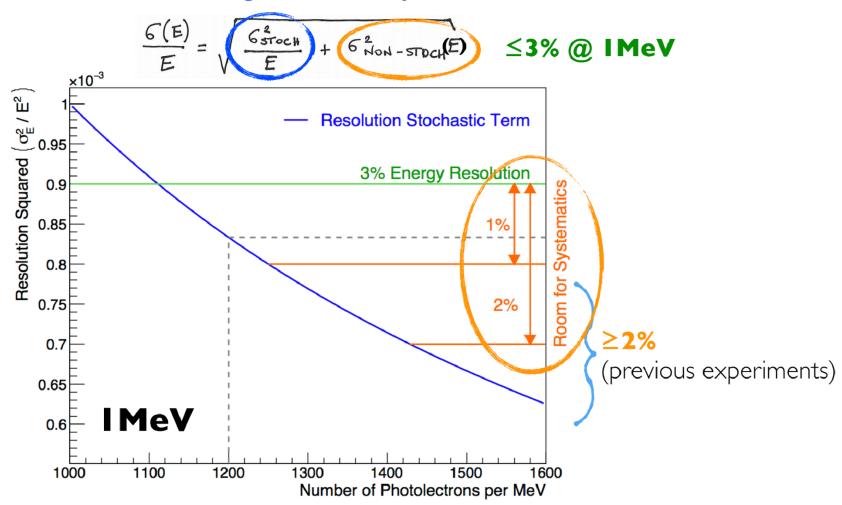
C.Cerna

On behalf of the JUNO SPMT team



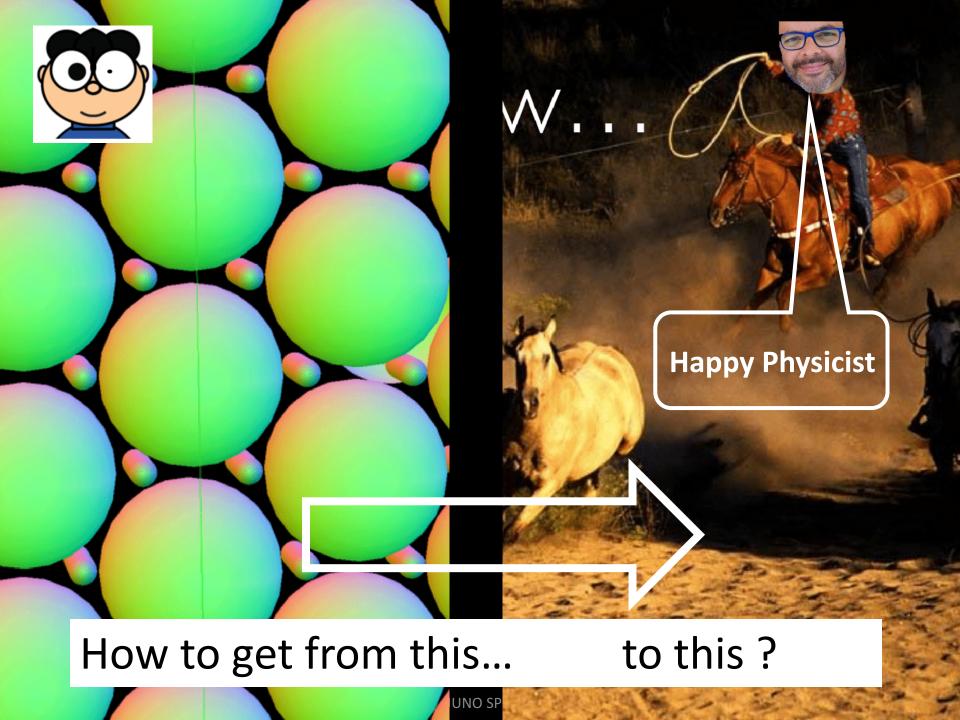


lot of light is a necessary but not sufficient condition



challenging calorimetry systematics control







You need a **SYSTEM** (readout, mechanical, etc.)

- Existing in industry
 or that could be developed in your time scale
- You can build and implement
- Affordable

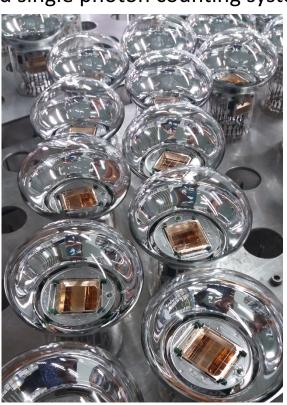


The smart path....



3" PMT

- Existing in industry
- Affordable
- Good single photon counting system



CATIROC ASIC

- Existing in french lab
- Affordable
- Good single photo-electron readout system

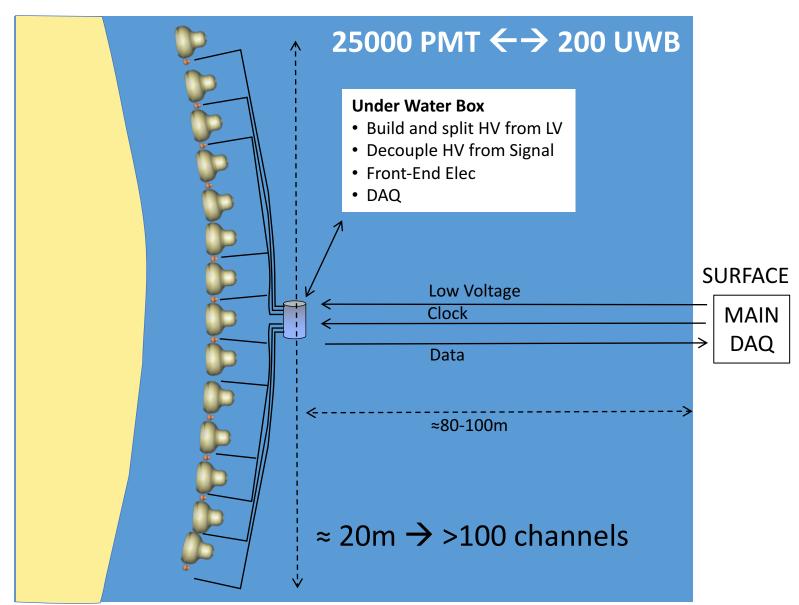


From Large Water Cerenkov

to Large Liquid Scintillator

SPMT system sketch





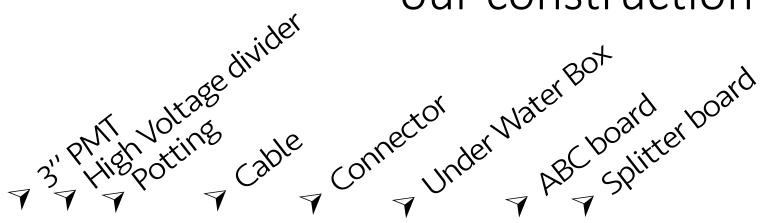


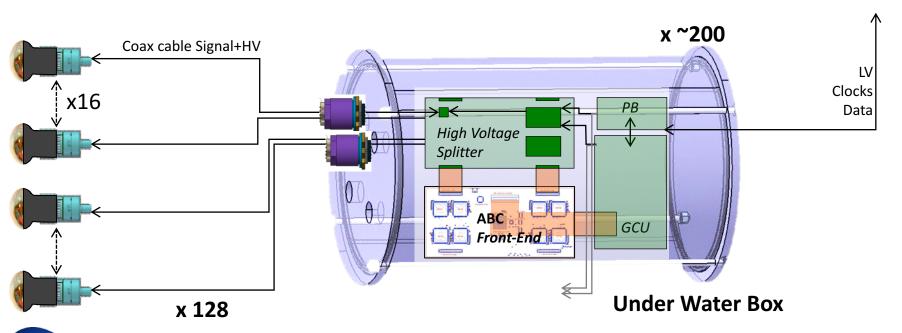
07/02/2017

System schematics

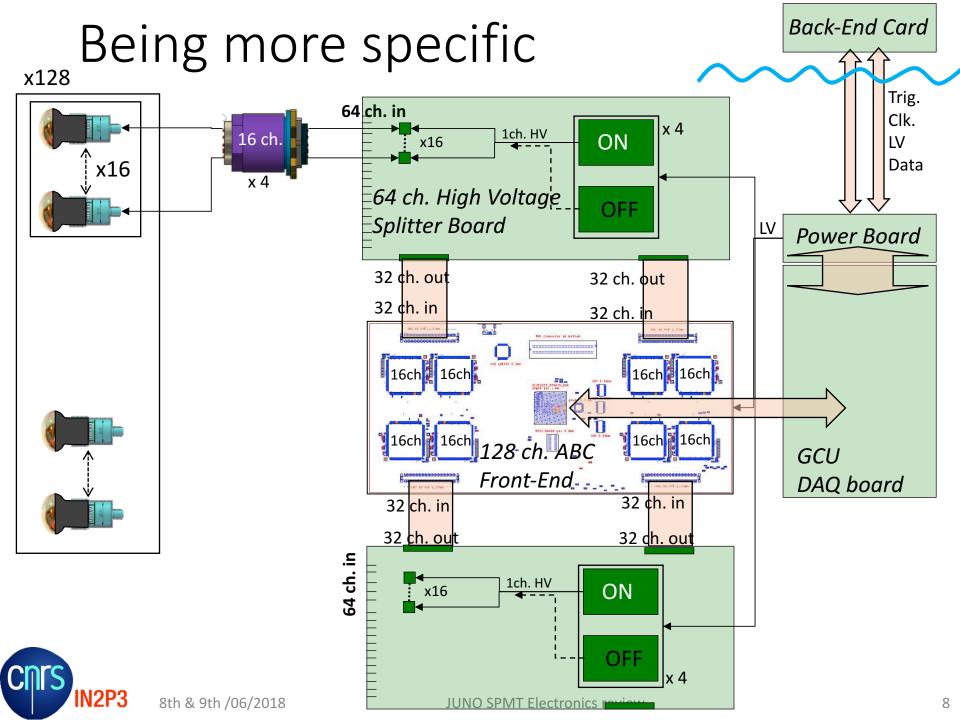


our construction brick



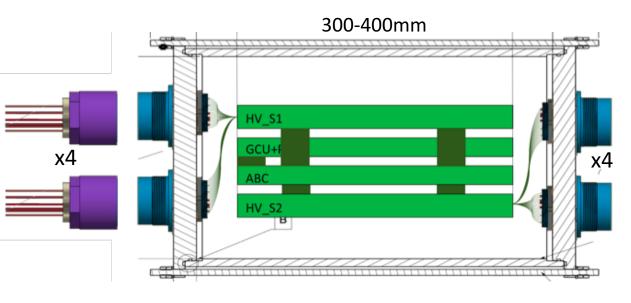




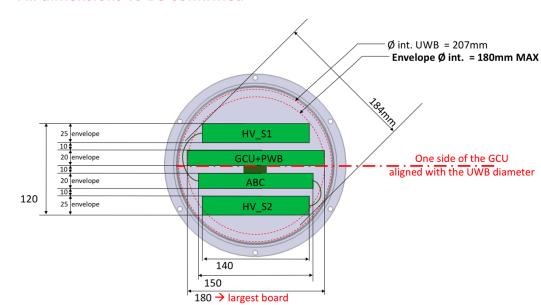


Under Water Board Sketch





All dimensions To Be Confirmed





Organization

25 000 PMT





Pls

- A.Cabrera (APC)
- P.Ochoa (PUC)
- M.He (IHEP)

