# summary description of two modules

Chendi Shen 2016.9.1

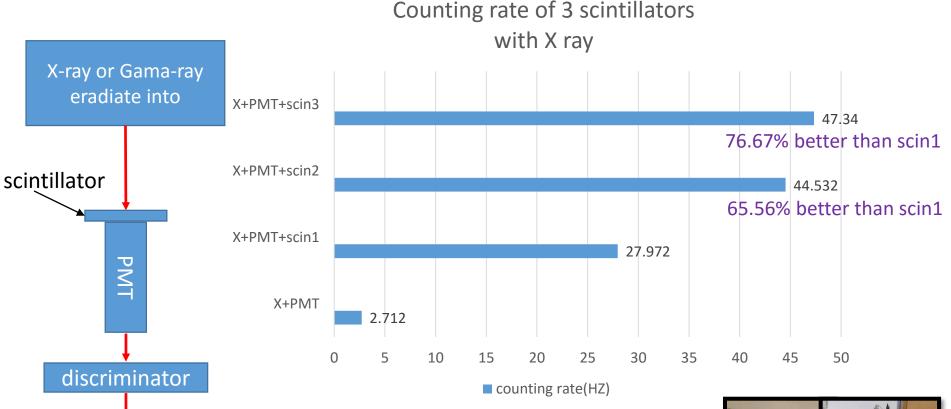
#### Selection of materials for two modules

	1 <sup>st</sup> module	2 <sup>nd</sup> module
WLS fiber	Saint-Gobain	Quraray
	(BCF91A)	(Y11)
scintillator	Kedi (old)	Kedi (new)
reflectors	Mirror mylar	Powder painting
Reflective painting	TiO2	silver shine 415001
lead	Jiateng Company	same
PMT	Beijing Bingsong (CR284)	same

### Goal: improving light yield as much as possible!

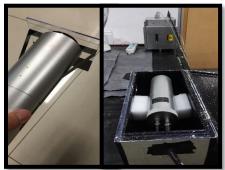
- selection of scintillator
- selection of light diffuse reflective meterials between scintillator plate and lead plate
- selection of light specualr reflective painting on the end of the wave-length shifting fibers

selection of scintillator

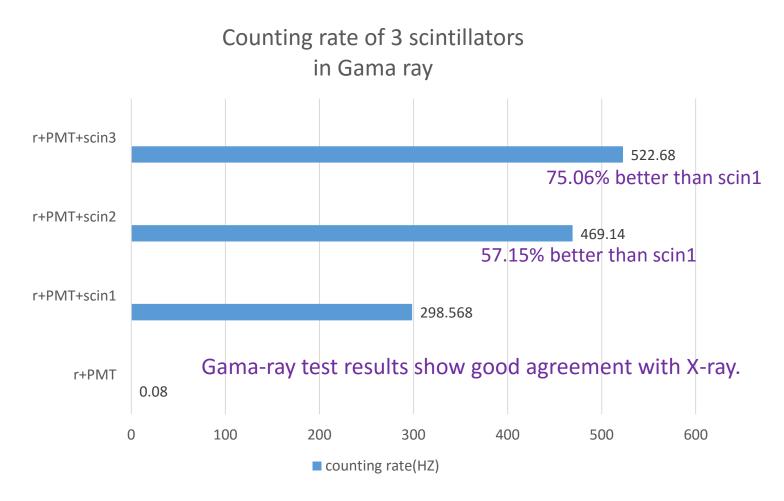


3 kind of scintillators we have. Kedi has made scin1 and scin2 with different ratio of material, another company in China has made scin3. So we do this test to slectec the best one for Ecal.

scaler

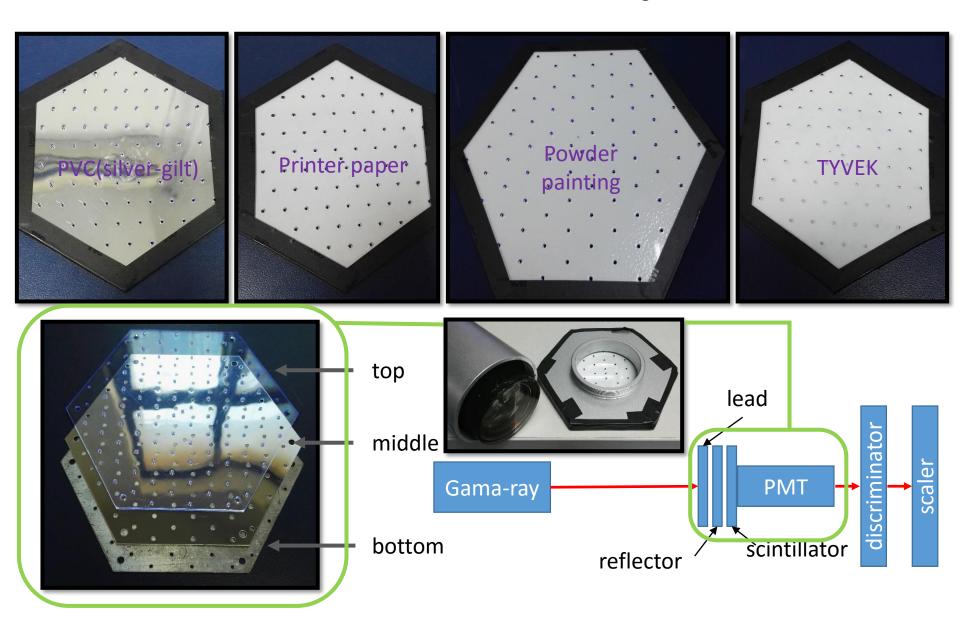


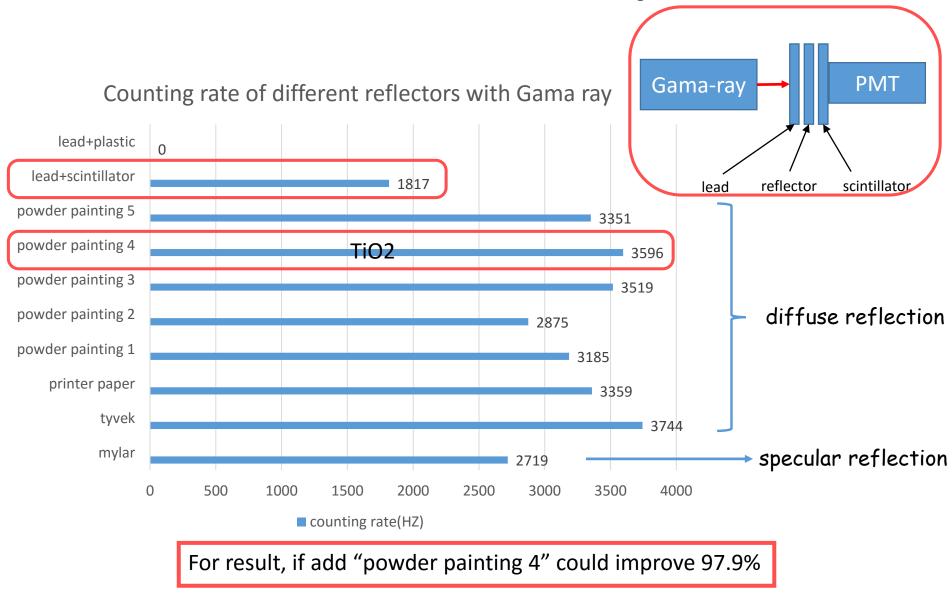
selection of scintillator



Threshold is 10mv No.1: made by Kedi , old, thickness is 1.5mm No.2: made by Kedi , new, thickness is 1.5mm No.3: made by another company in China

#### • selection of light diffuse reflective meterials





selection of light diffuse reflective meterials

## Thank You !!!