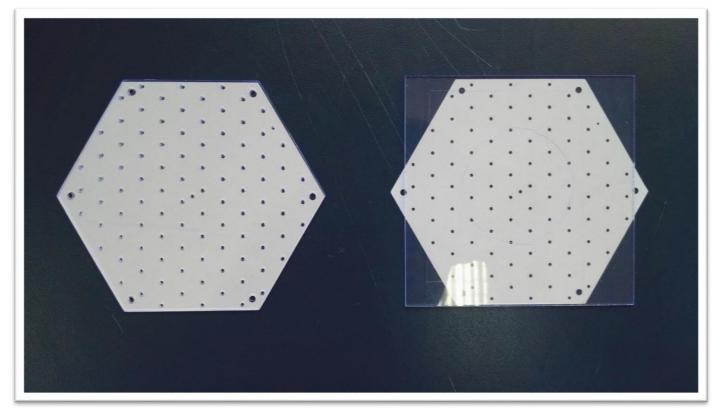
Scintillator Test & Reflective Material Test

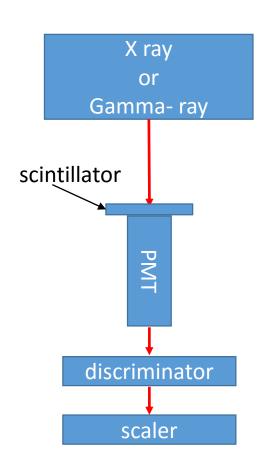
Chendi Shen 2016.3.31



Kedi

Another company

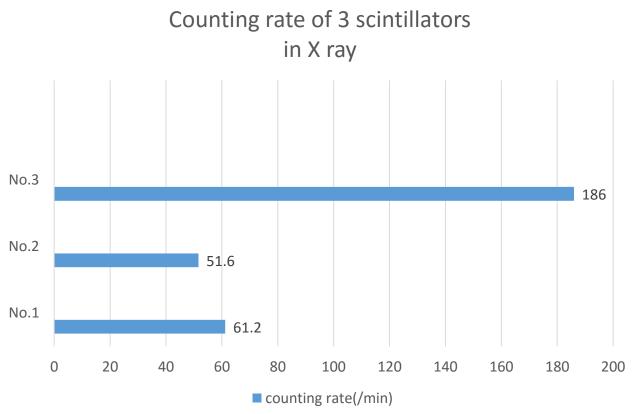
We have 3 kind of scintillators. No.1 and No.2 are made by Kedi but ratio of material is different, No.3 is made by another company in China. (shape is different but they 'll give us a same one as Kedi's later)







We have got the data about counting rate of different scintillators in this test system.

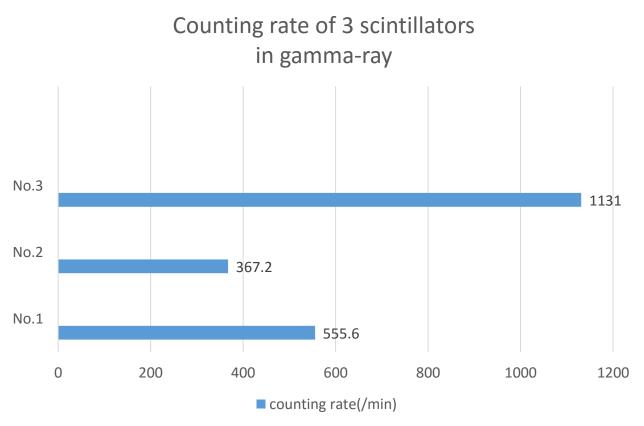


Threshold is 10mv

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., thickness is 1.8mm

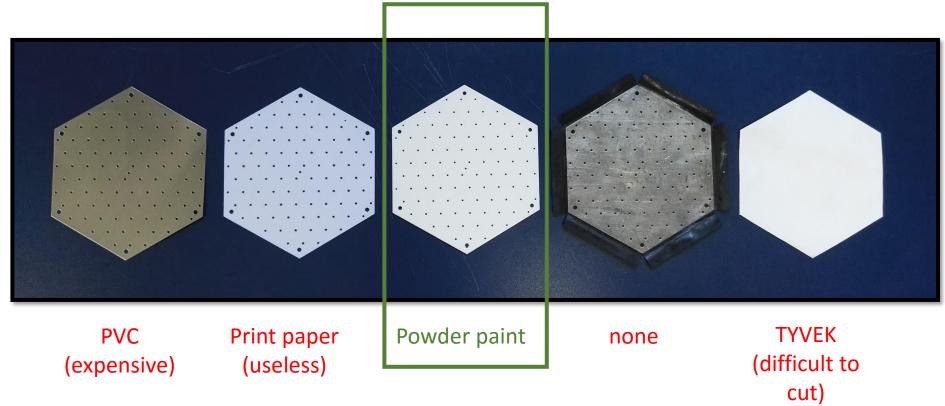


Threshold is 3mv

No.1: made by Kedi, old, thickness is 1.5mm

No.2: made by Kedi, new, thickness is 1.5mm

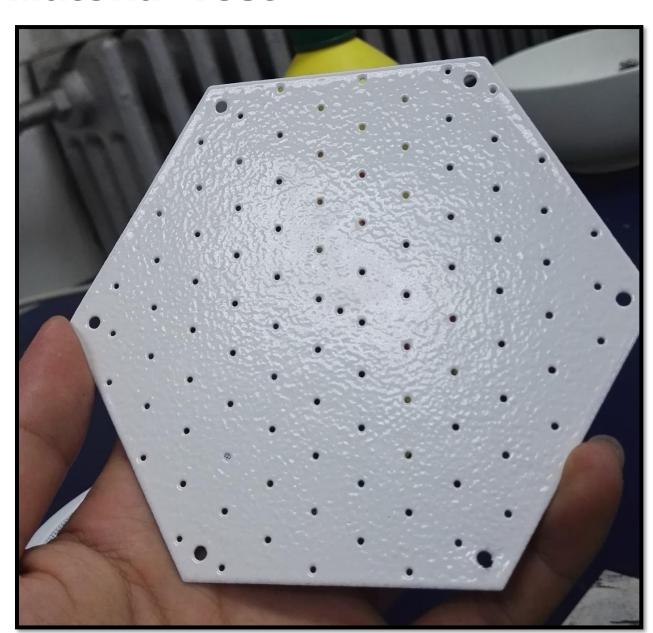
No.3: made by another company in China., thickness is 1.8mm

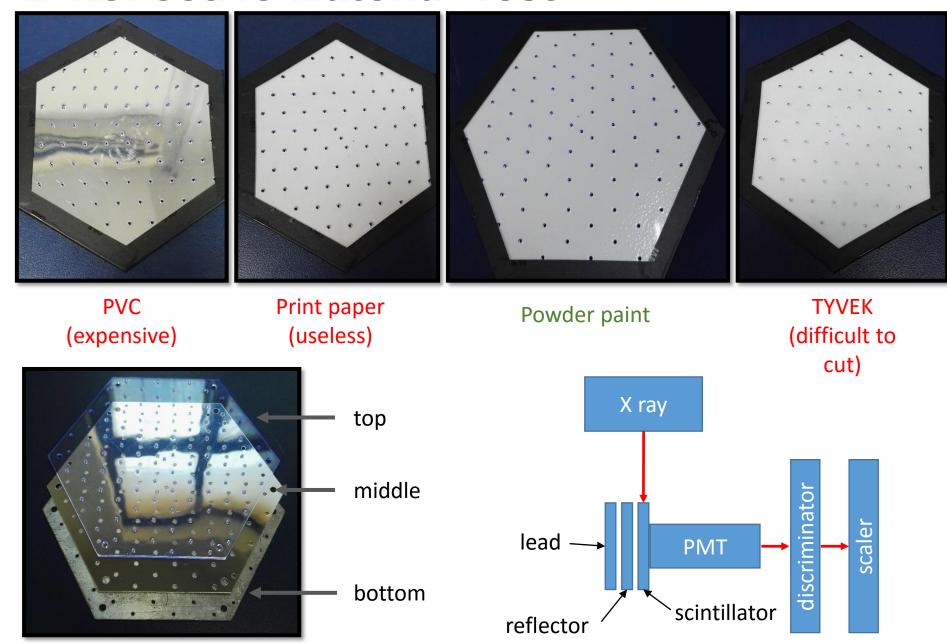


We have 4 kind of material, PVC, print paper, powder paint and TYVEK. Specially, I want to introduce a new way, Powder paint, to reflect the light. For painting use electrostatic coating. Polymer powder keeping on surface Pb plate by force of electrostatic attraction. Polymer powder are polymerized at 160-180C during 10-20 min in thermo camera.

the reflection is diffuse reflection.
It is better than specular reflection.
the thickness is 0.18mm, but they paint three times, the thickness would decrease to 0.12mm if just coat one time.

We have do some reflection test and we found that the effective of reflection is pretty good.











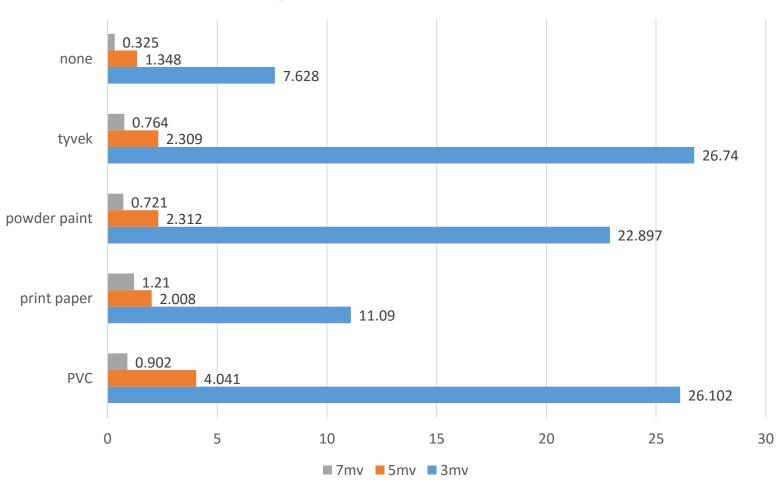


lead

scintillator

We have got the counting rate with different material in this test system.





Thank You!!!