

2012/3/16 Magspec analysis note 5

7) incident angle compensation

X-axis info ② has angle α for each location
for FWD view, $\text{image} \times \cos(\alpha)$ (counts become a bit less)

for Btm view, $120 - \alpha$ is the angle of incident
 $\text{image} \times \cos(120 - \alpha)$

8) Energy dependence

Screen sensitivity normalized for 1000 MeV

$$\eta = -0.11 \times 10^{-3} [\text{MeV}]^3 + 1.119$$

Low energy \rightarrow more sensitive

count or charge should be collected

$$q_{\text{real}} = q/\eta$$

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