

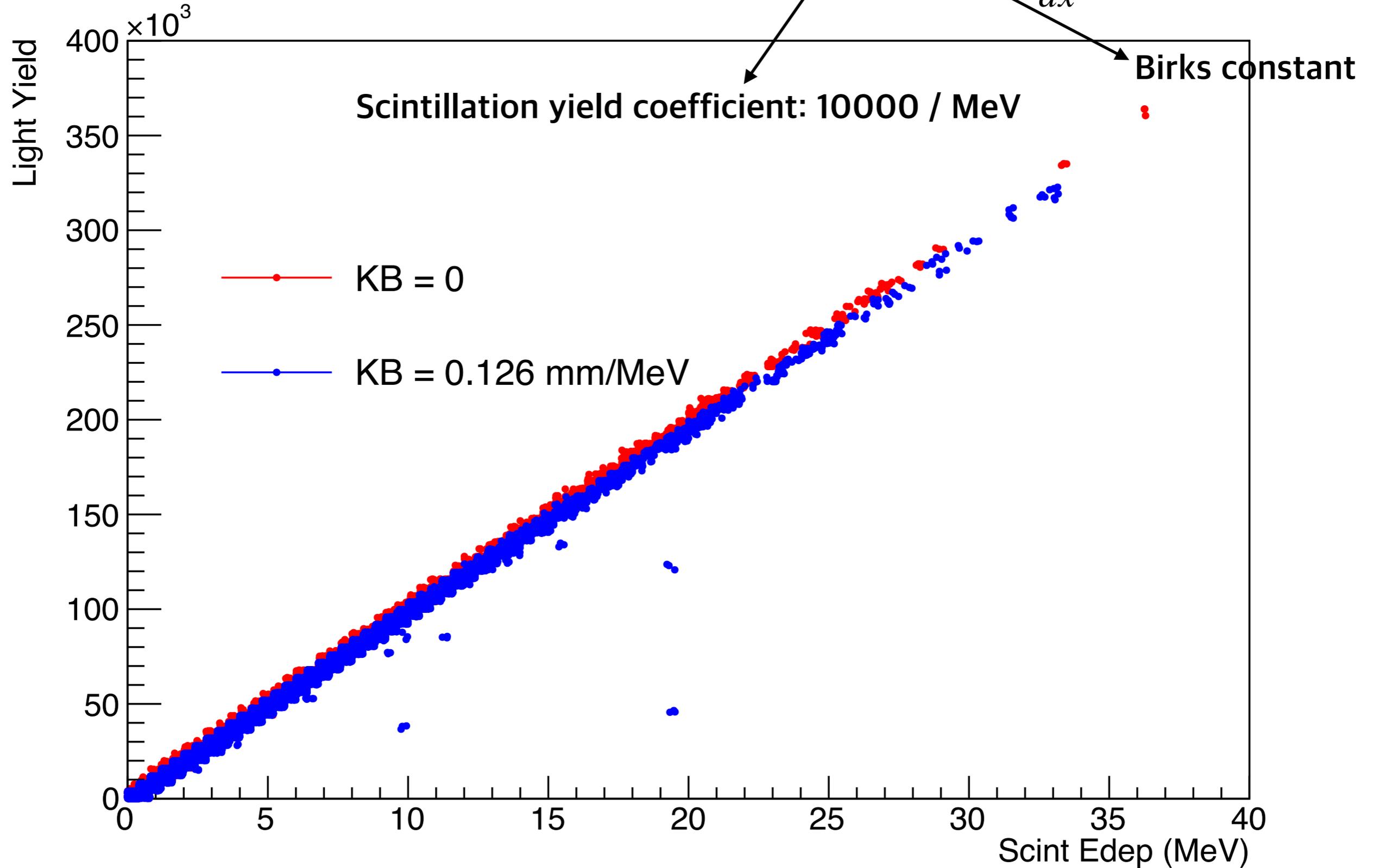
K-Koto Meeting

2021/09/23

YoungJun Kim

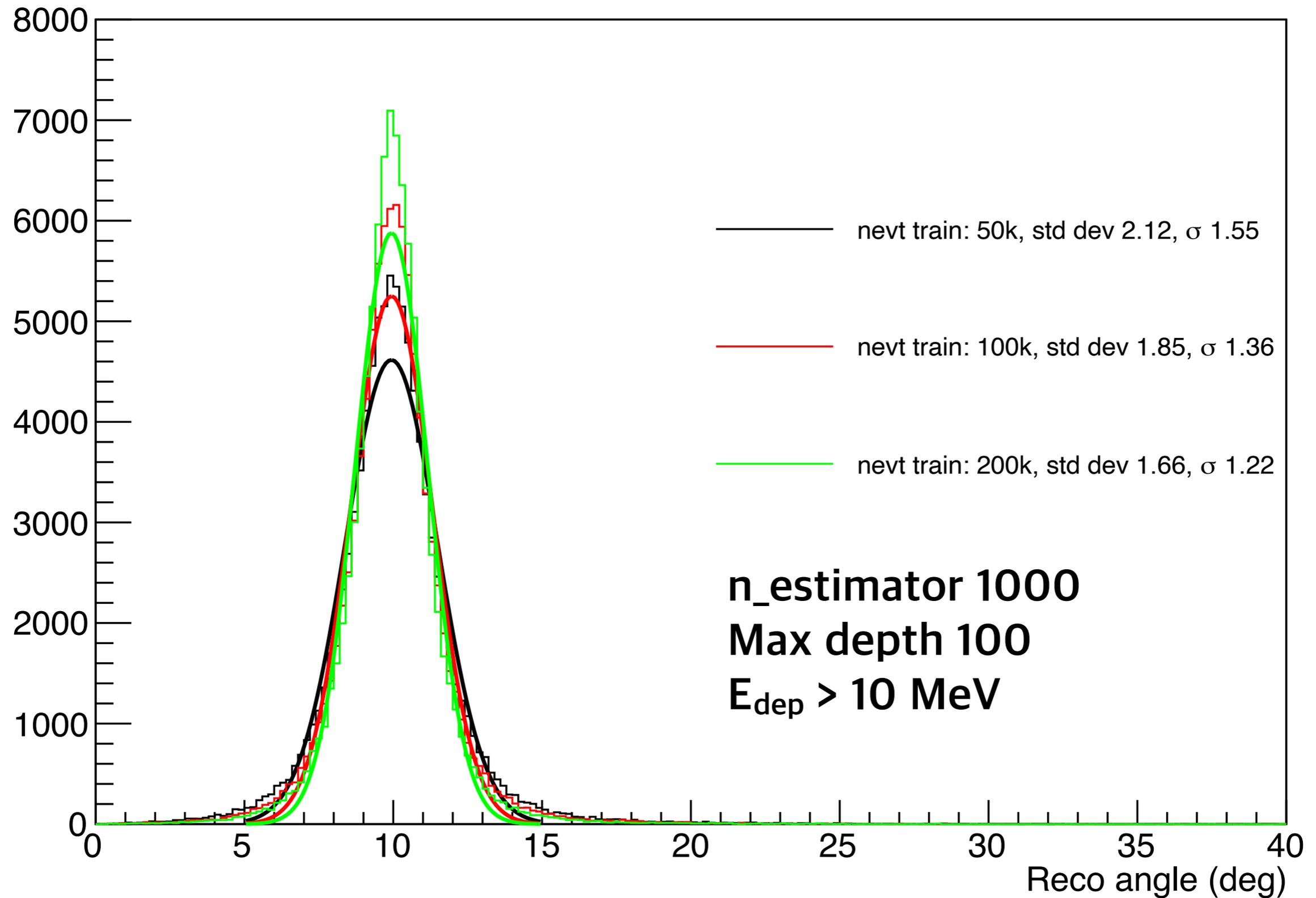
Birks quenching

$$\frac{dL}{dx} = S \frac{\frac{dE}{dx}}{1 + KB \frac{dE}{dx}}$$



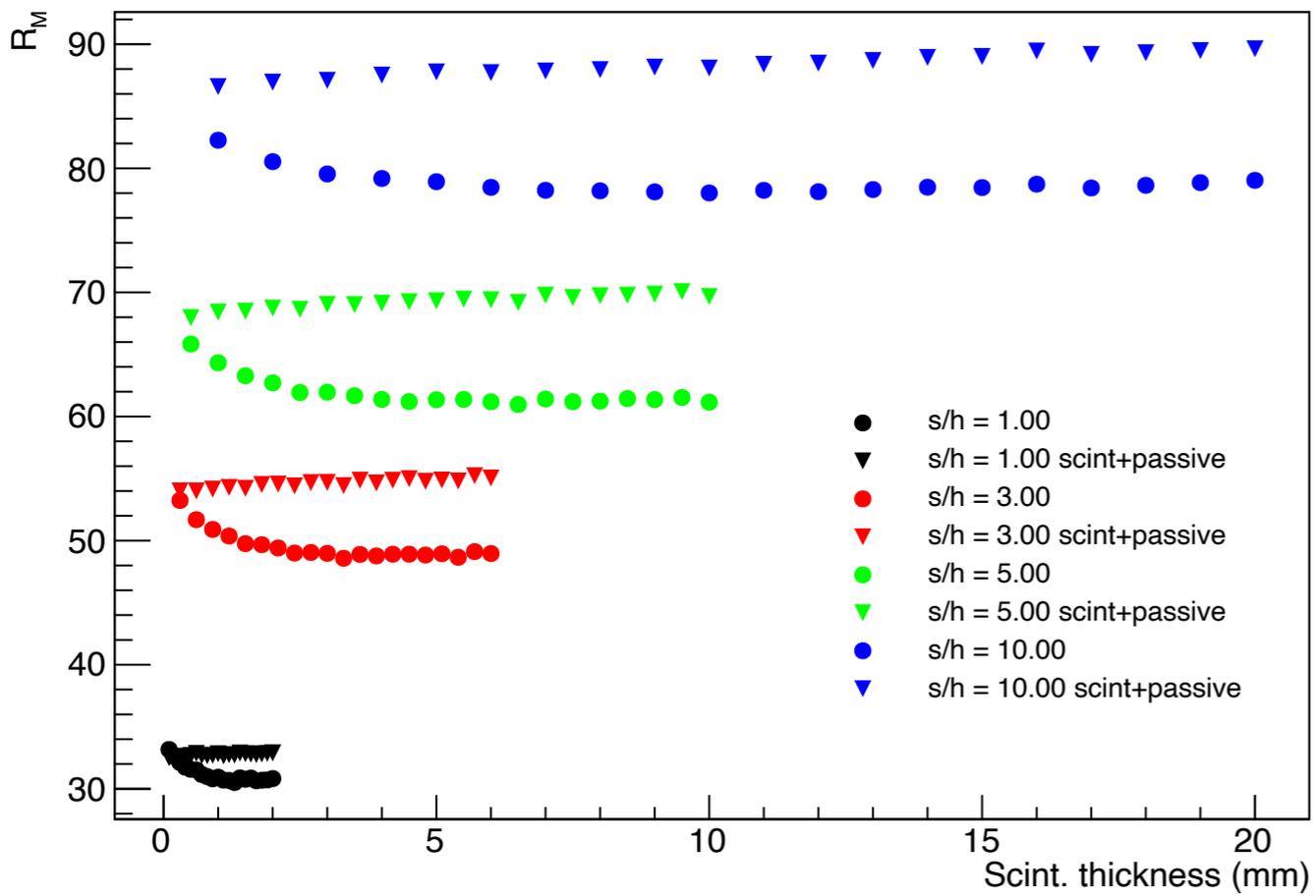
Design: 5mm (w) × 50 cm (l) × 24 layers

incident angle 10 deg

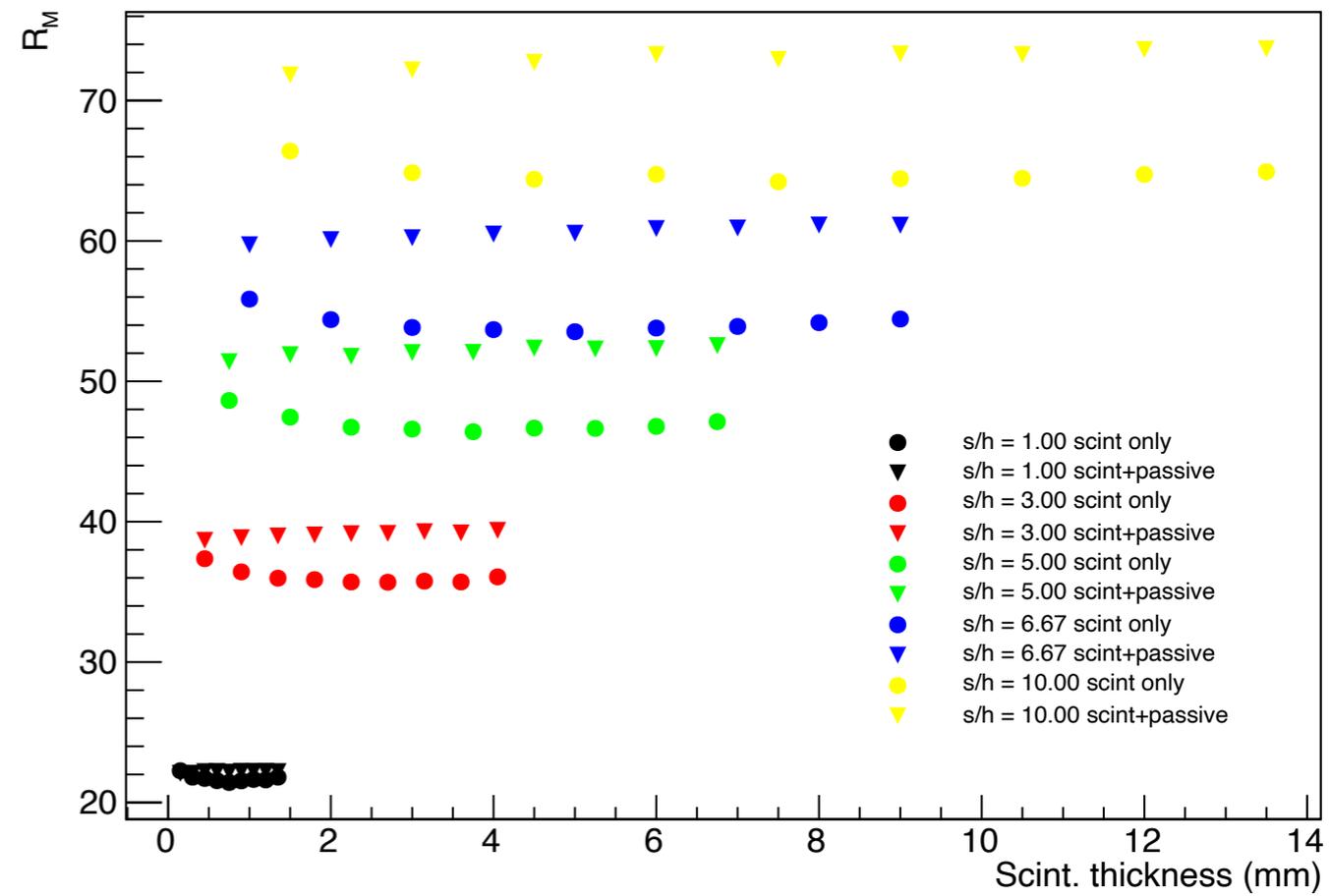


Moliere Radius

Pb + Scintillator

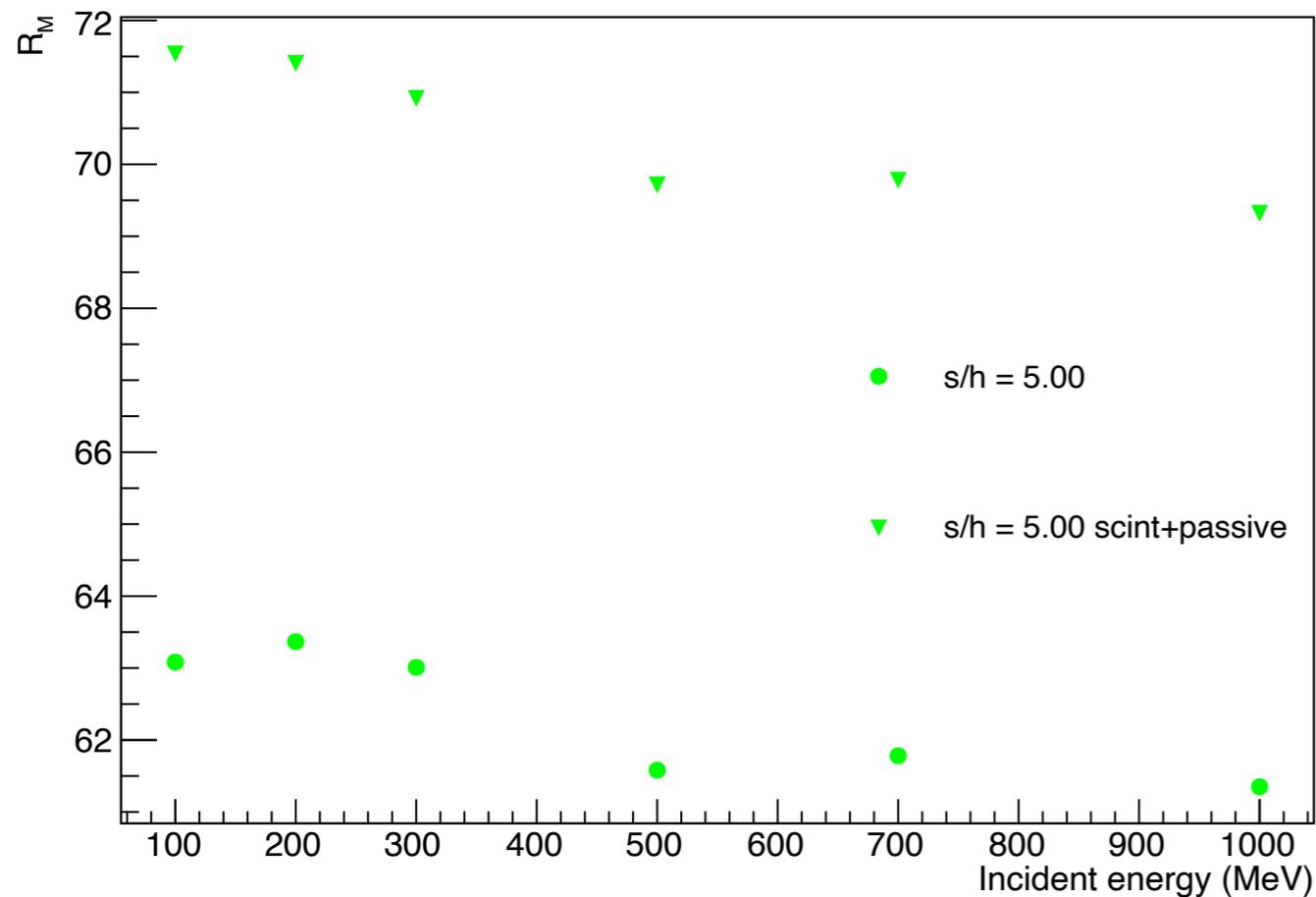


W + Scintillator



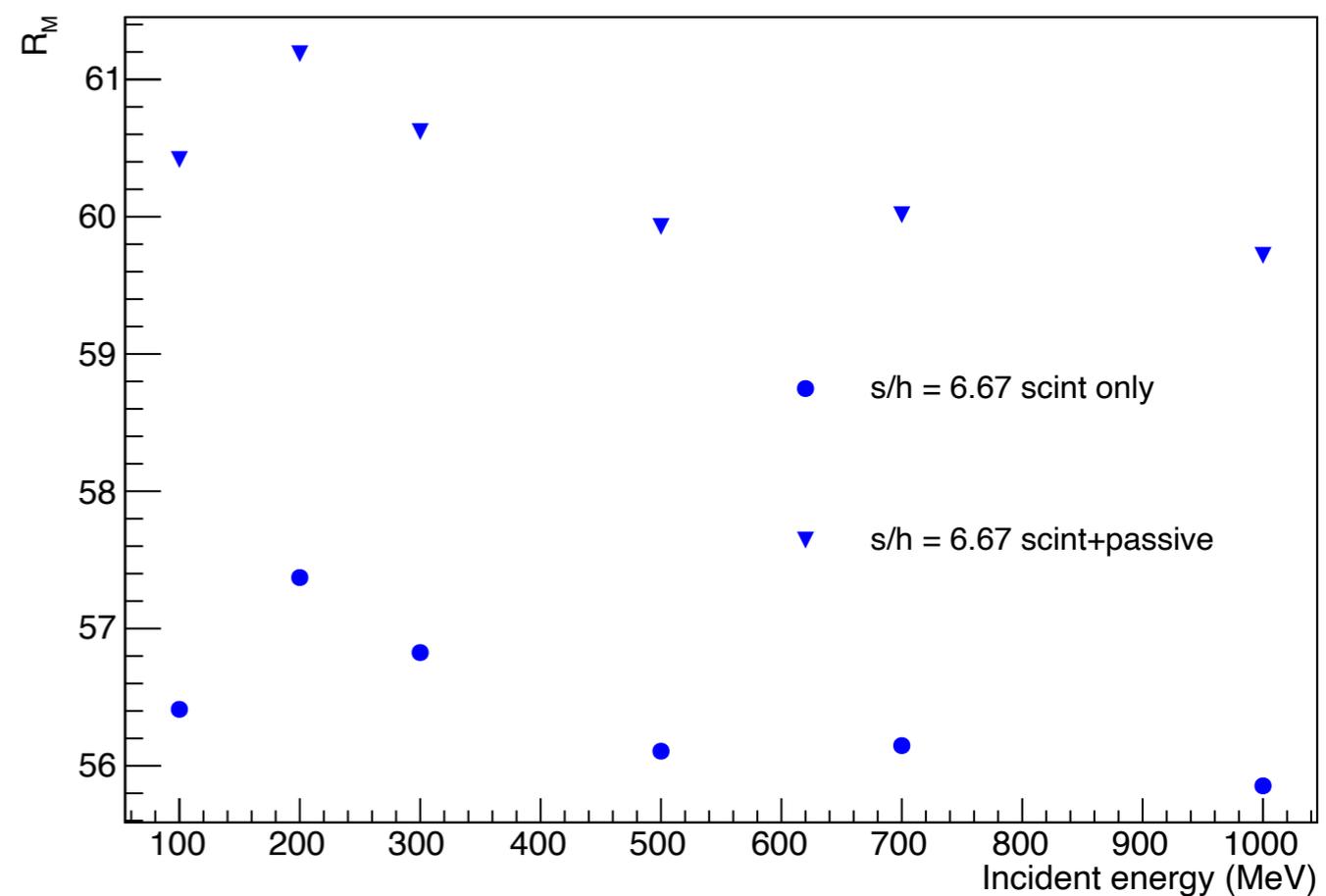
Moliere Radius (energy dependency)

Pb + Scintillator



Scint: 5 mm
Pb: 1 mm

W + Scintillator



Scint: 1 mm
W: 0.15 mm