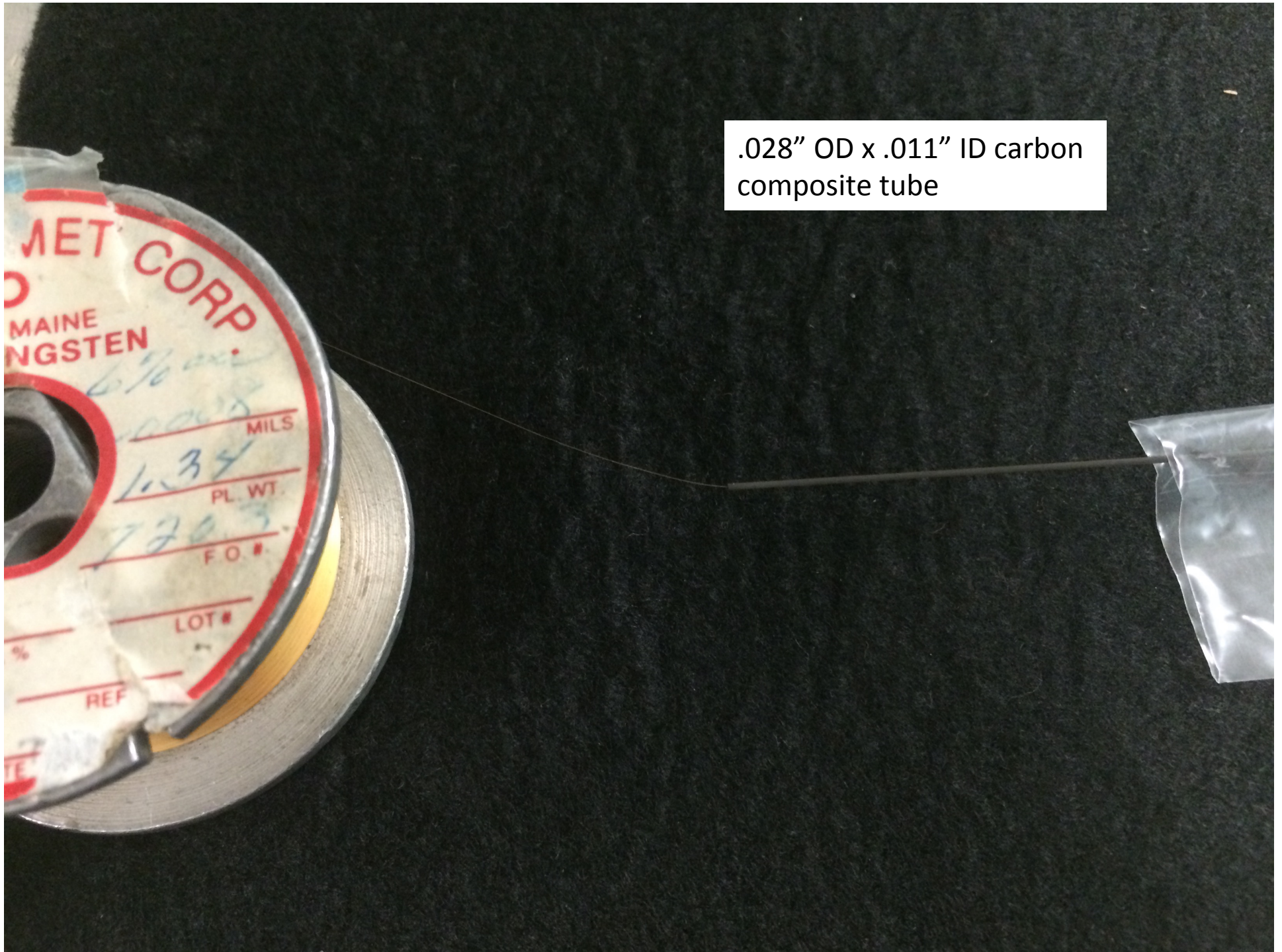


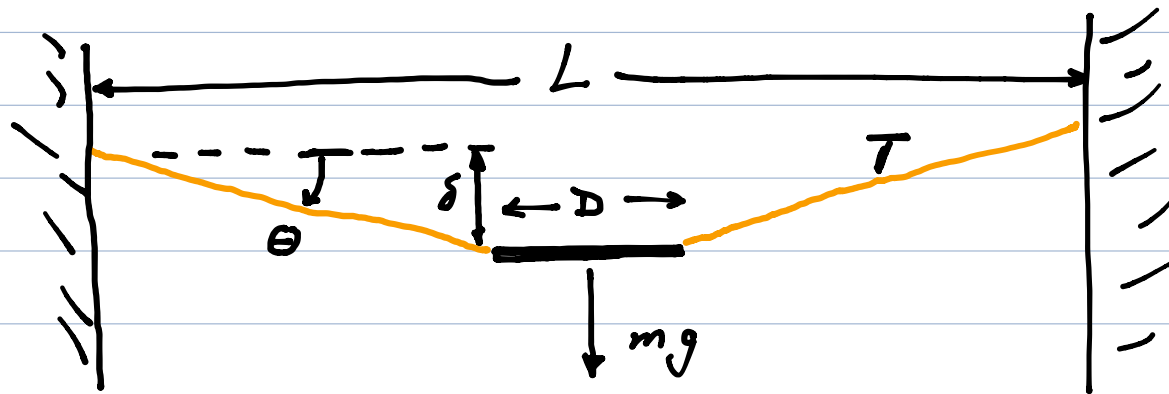
.028" OD x .011" ID carbon composite tube



Hi Rory,

The diameter is 6cm for the first two packages and 7.8cm for the last two. For the FDC the e.m. background comes mostly from the target, that's why the diameter increases with the distance from the target. Since your chambers are behind FCAL I think the insensitive area shouldn't be bigger than the FCAL opening, or 23cm diameter. If this is too big for you, you may need MC to estimate the rates.

Lubomir



$$mg = 2T \sin \theta$$

$$W \times \frac{D}{100 \text{ cm}} = 2T \times \frac{\delta}{\frac{L-D}{2}} = 4T \frac{\delta}{L-D}$$

$$\delta = W \times \frac{D}{100} \frac{1}{4T} (L-D)$$

$$\text{Take } D = 10 \text{ cm}$$

$$L = 60'' = 150 \text{ cm}$$

$$W = 0.4 \text{ g for 1 m tube}$$

$$T = 50 \text{ g}$$

$$\delta = .4 \times \frac{10}{100} \times \frac{1}{4 \times 50} \times 140 = .028 \text{ cm}$$