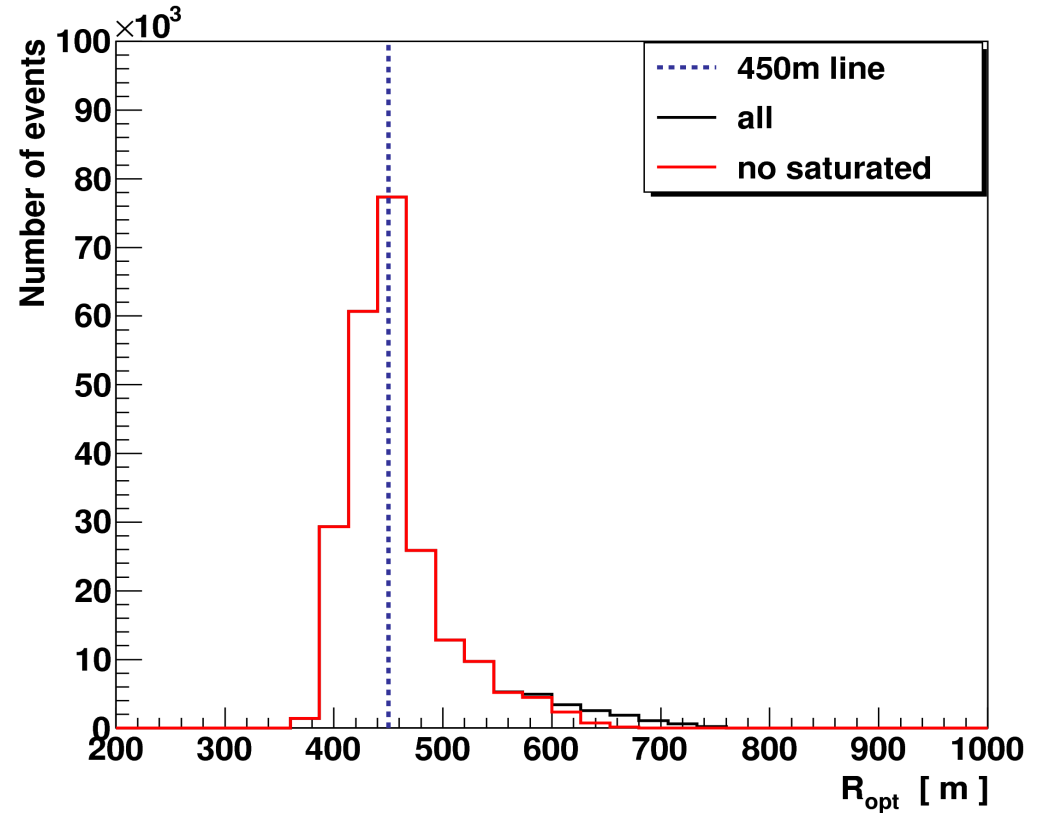
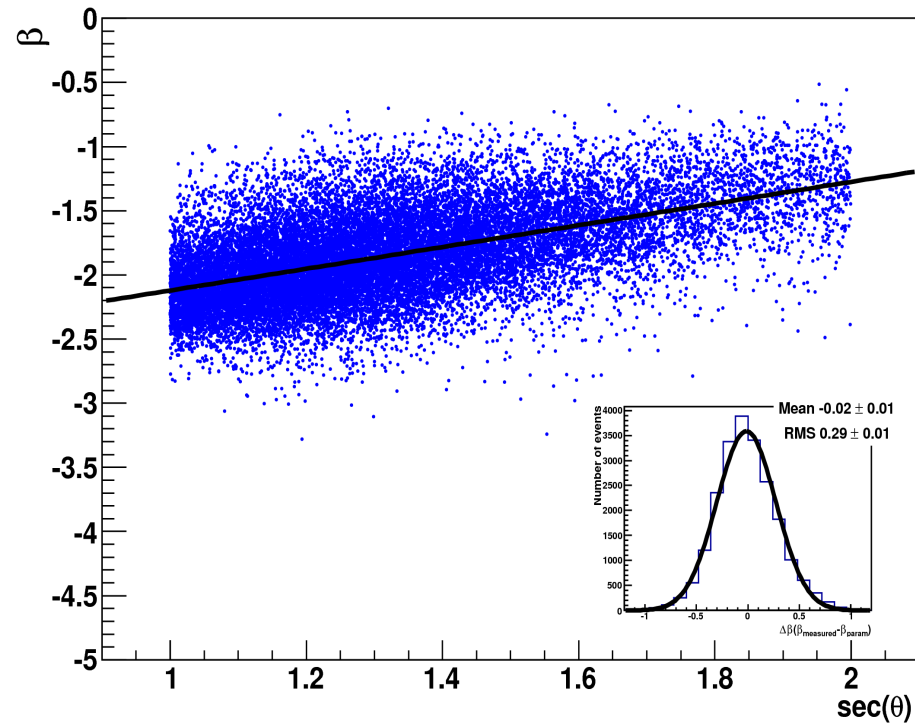


Infill reconstruction using offline

Optimal distance and β parameter from the LDF



$$\beta(\sec(\theta)) = A + B * \sec(\theta)$$

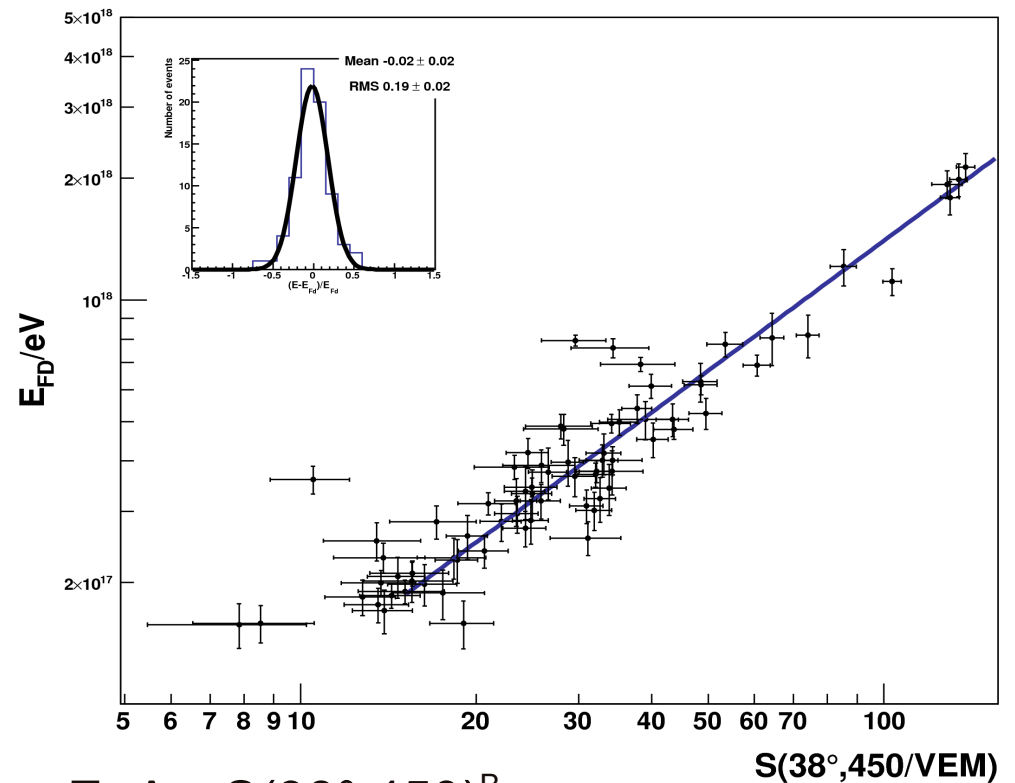
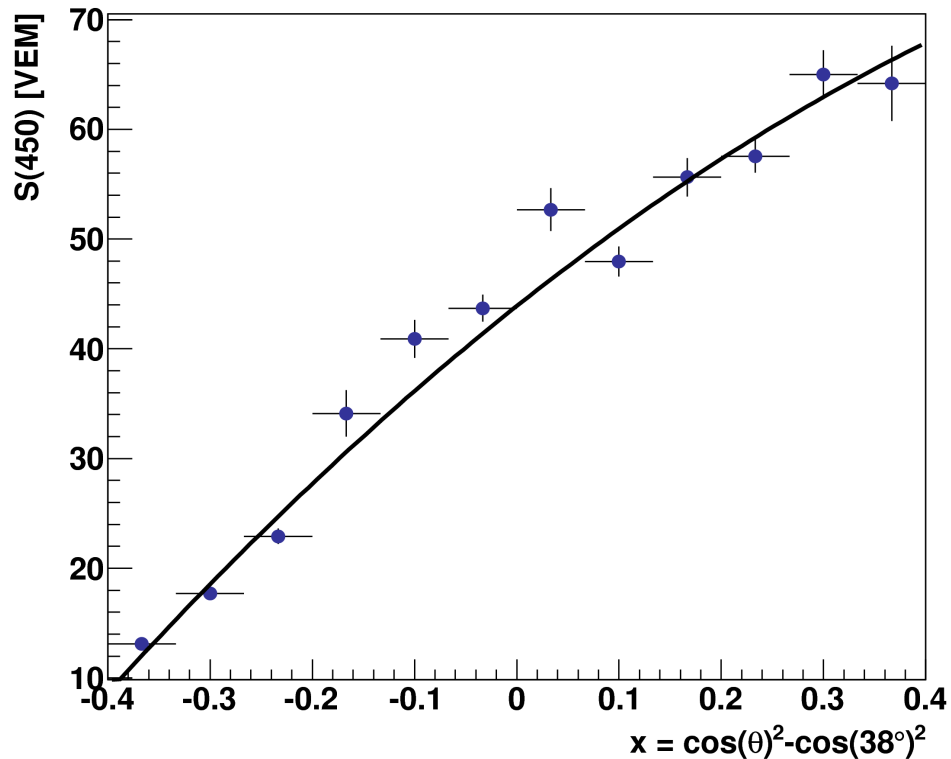
$$A = -2.97 \pm 0.01$$

$$B = 0.85 \pm 0.01$$

$$R_{opt} = 450 \text{ m}$$

Infill reconstruction using offline

CIC attenuation curve and calibration with FD hybrids from Cohiueco



CIC for Infill @ $\theta = 38^\circ$

$$\text{CIC}(\theta) = 1 + a x + b x^2$$

$$x = \cos^2 \theta - \cos^2 38^\circ$$

$$S_0(450, 38^\circ) = 43.9 \text{ VEM}$$

$$a = 1.69 \pm 0.05 \text{ (stat)}$$

$$b = -0.80 \pm 0.20 \text{ (stat)}$$

$$E = A \times S(38^\circ, 450)^B$$

$$A = 1.03 \pm 0.09 \times 10^{16} \text{ [eV]}$$

$$B = 1.07 \pm 0.02$$

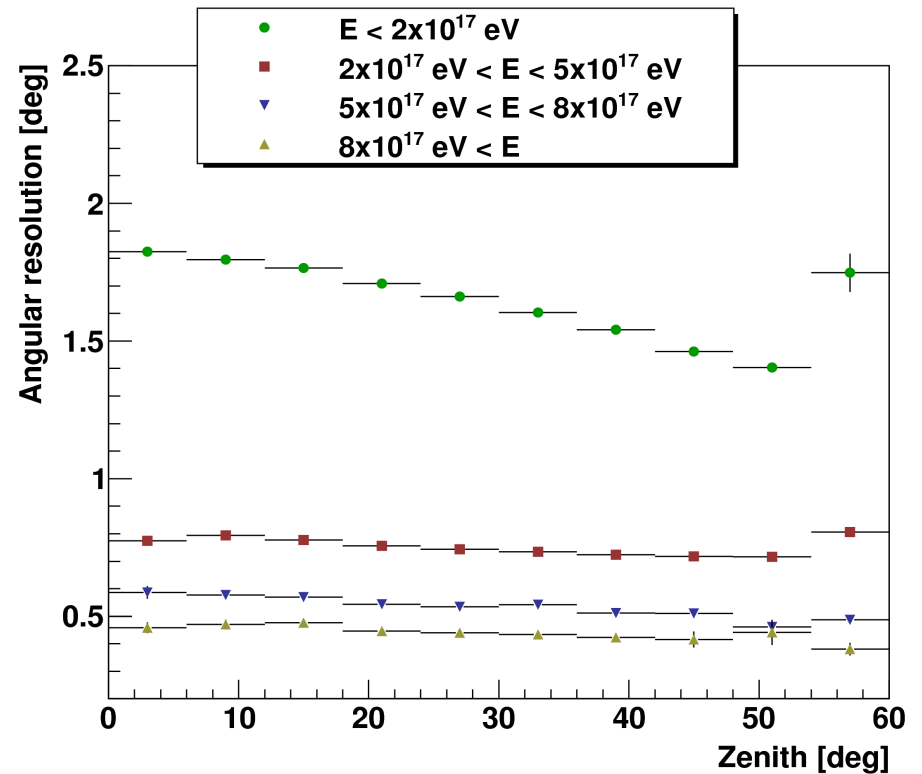
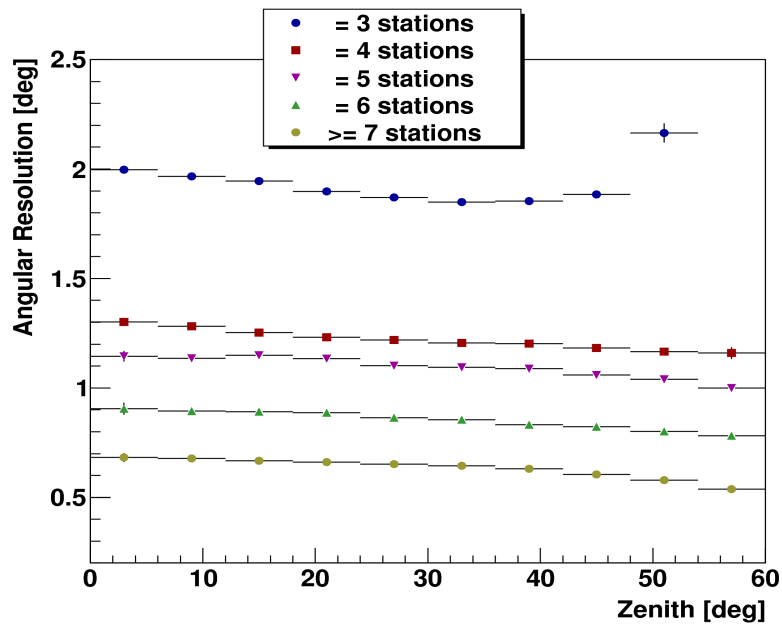
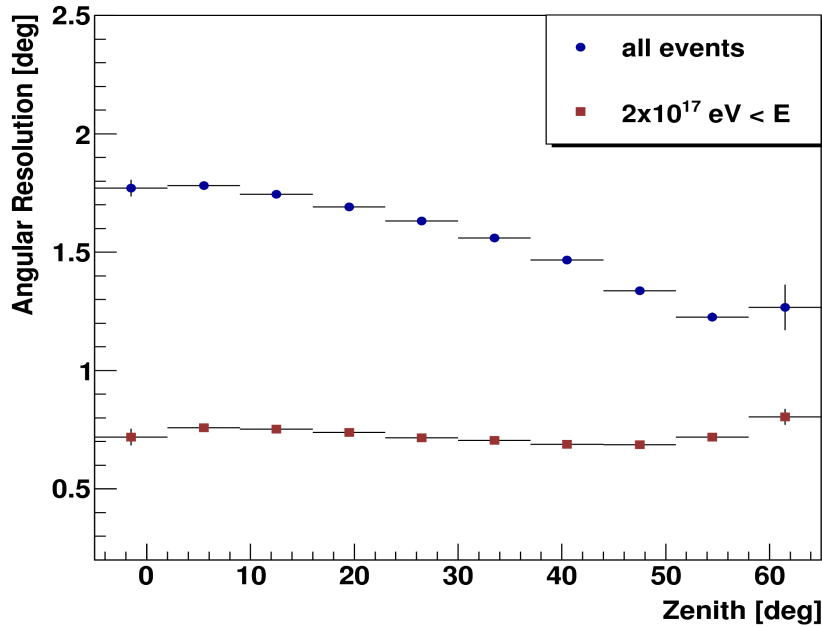
Fractional energy

$$\text{Mean} = -0.02 \quad \text{RMS} = 0.20$$

Infill reconstruction using offline

Angular resolution

$$AR = 1.5 \left(\frac{1}{2} (d\theta^2 + d\phi^2 \sin^2 \theta) \right)^{1/2}$$



More info: GAP 2011-013