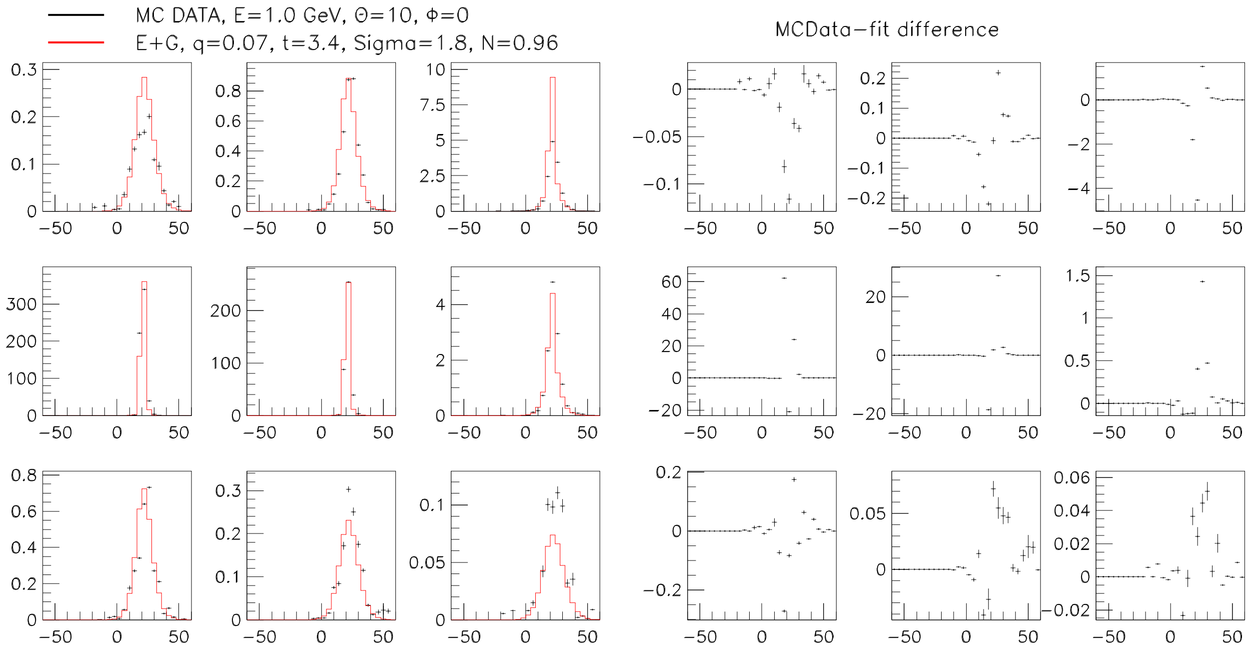
$$F(x,y) = 16N(Aexp(-\frac{\rho}{k}) + Bexp(-\frac{1}{2}(\frac{\rho}{\sigma})^2)) \tag{1}$$

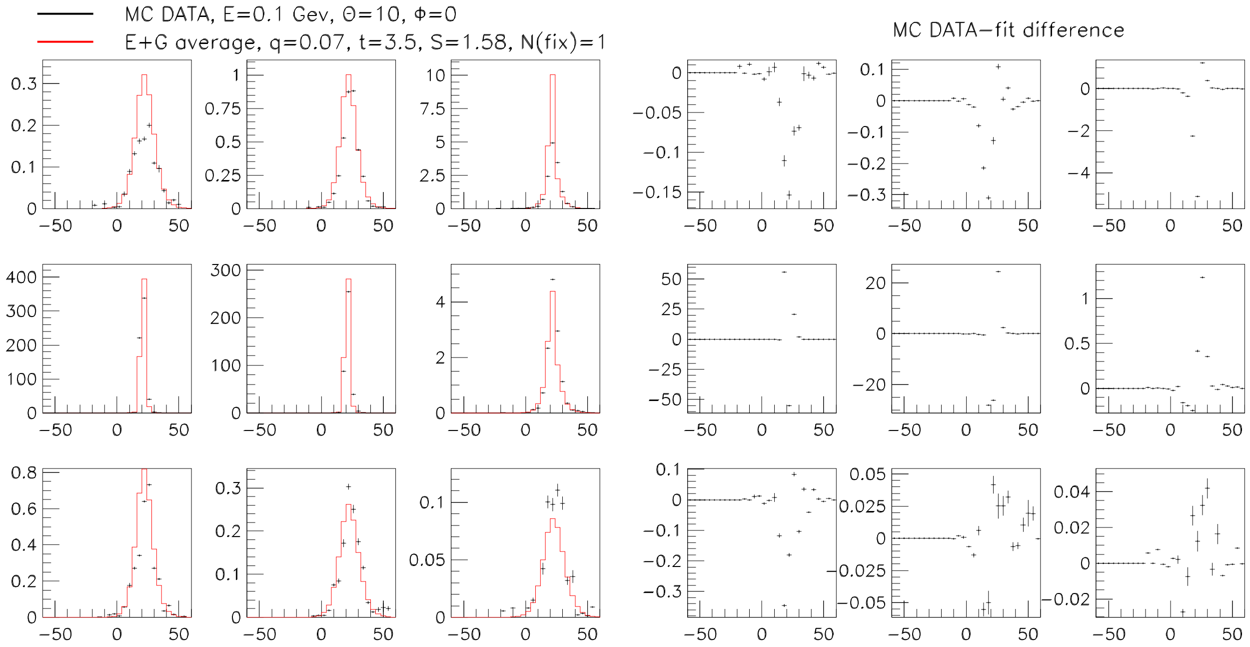
$$A = \frac{qE}{2\pi k^2} \tag{2}$$

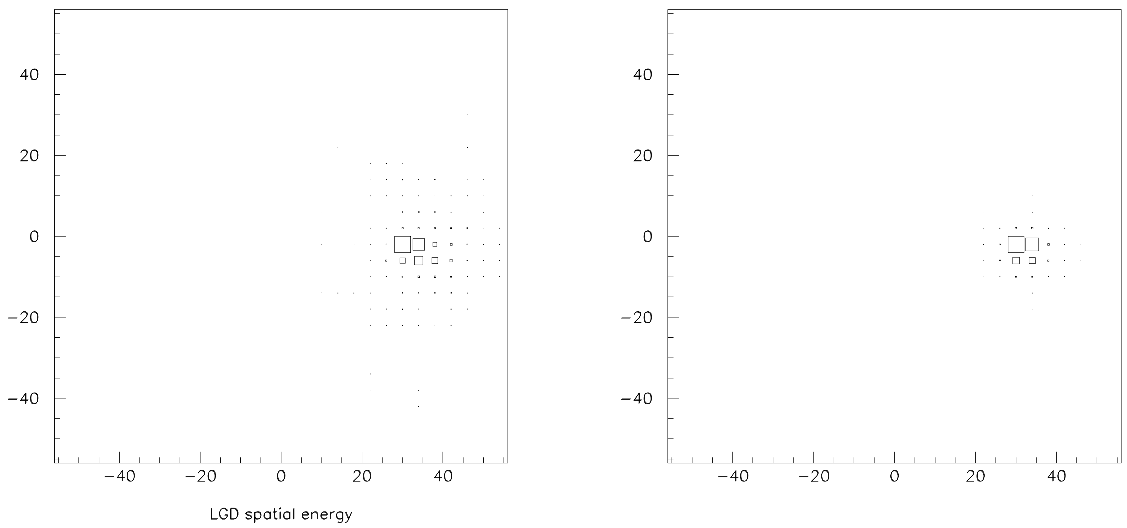
$$B = \frac{(1-q)E}{2\pi\sigma^2} \tag{3}$$

$$r = \sqrt{(x-x_0)^2 + (y-y_0)^2} \tag{4}$$

$$\rho = r\sqrt{\frac{1-sin(\theta)^2}{1-cos(\theta)sin(\beta)}} \tag{5}$$


MC DATA, E=1.0 GeV, Θ=10, Φ=0
E+G, q=0.07, t=3.4, Sigma=1.8, N=0.96
MCData−fit difference


MC DATA, E=0.1 Gev, Θ=10, Φ=0
E+G average, q=0.07, t=3.5, S=1.58, N(fix)=1
MC DATA−fit difference


LGD spatial energy