RICH prototype: light guide simulation
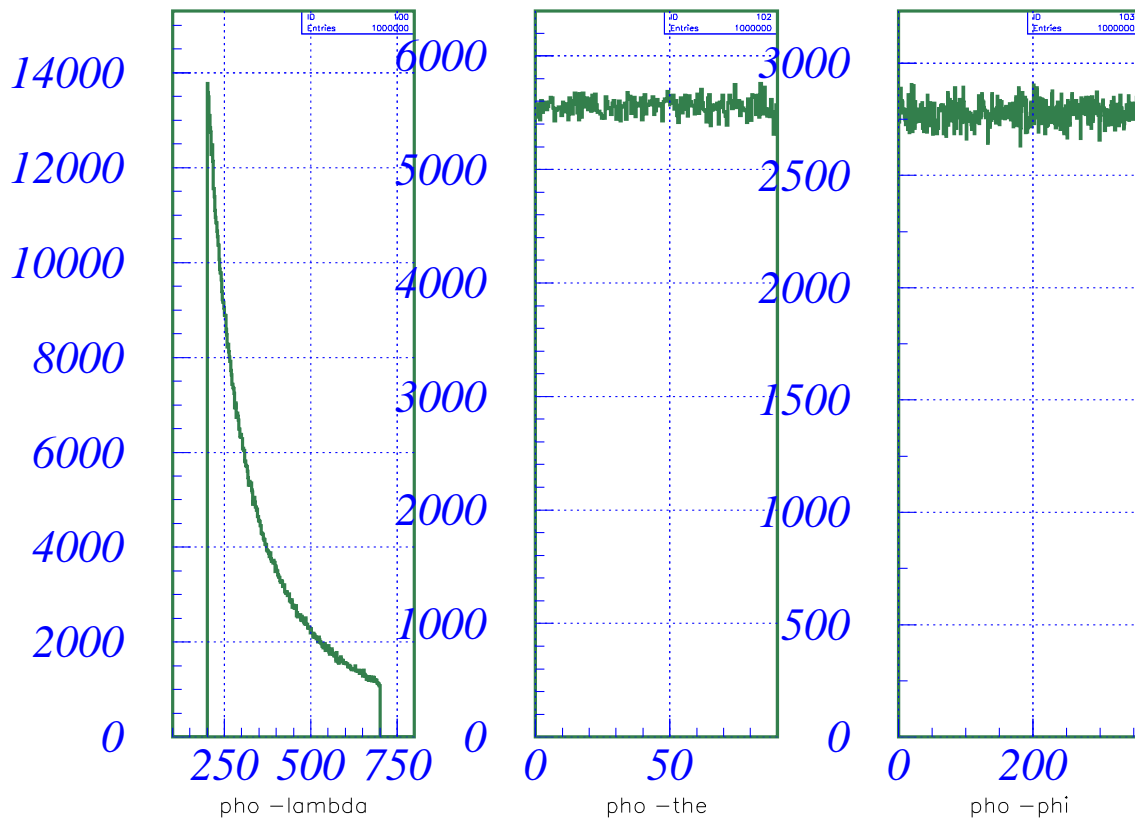
L. Arruda

April 13, 2006

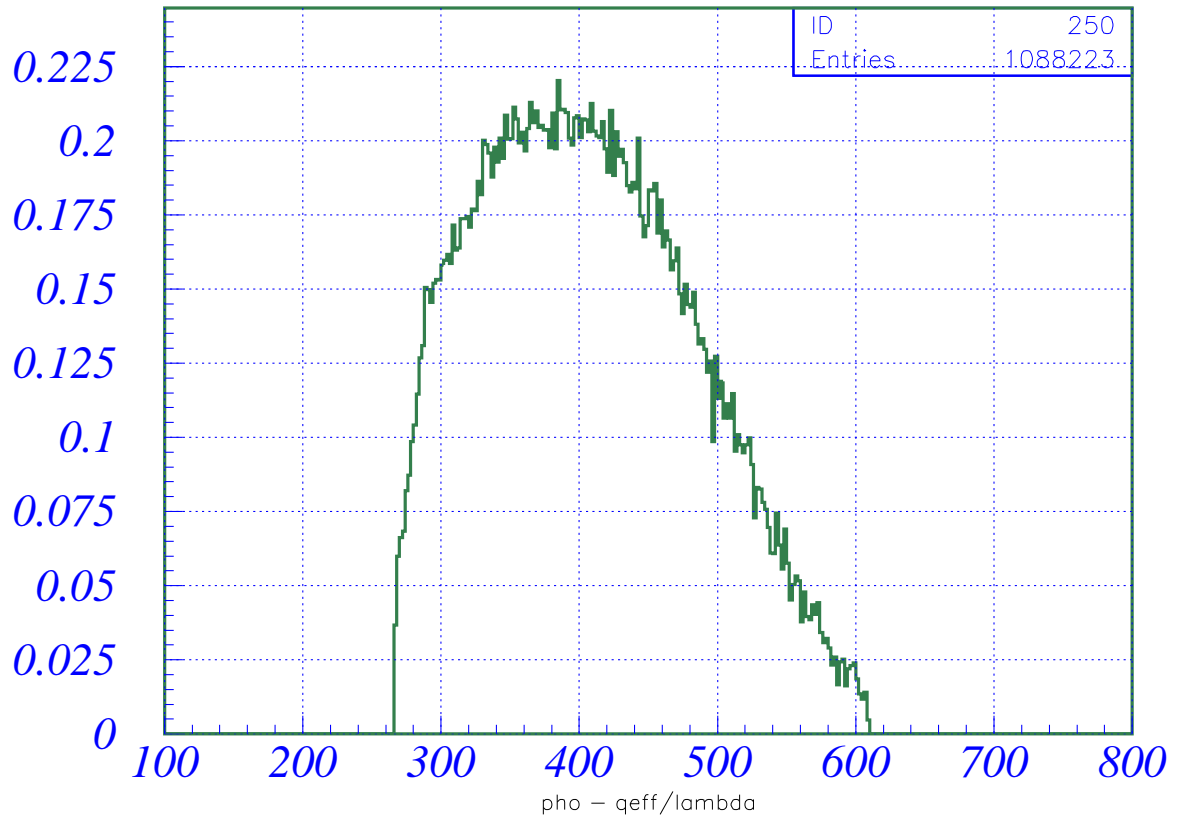Figure 1: generated photon characteristics: wavelength, theta, phi.

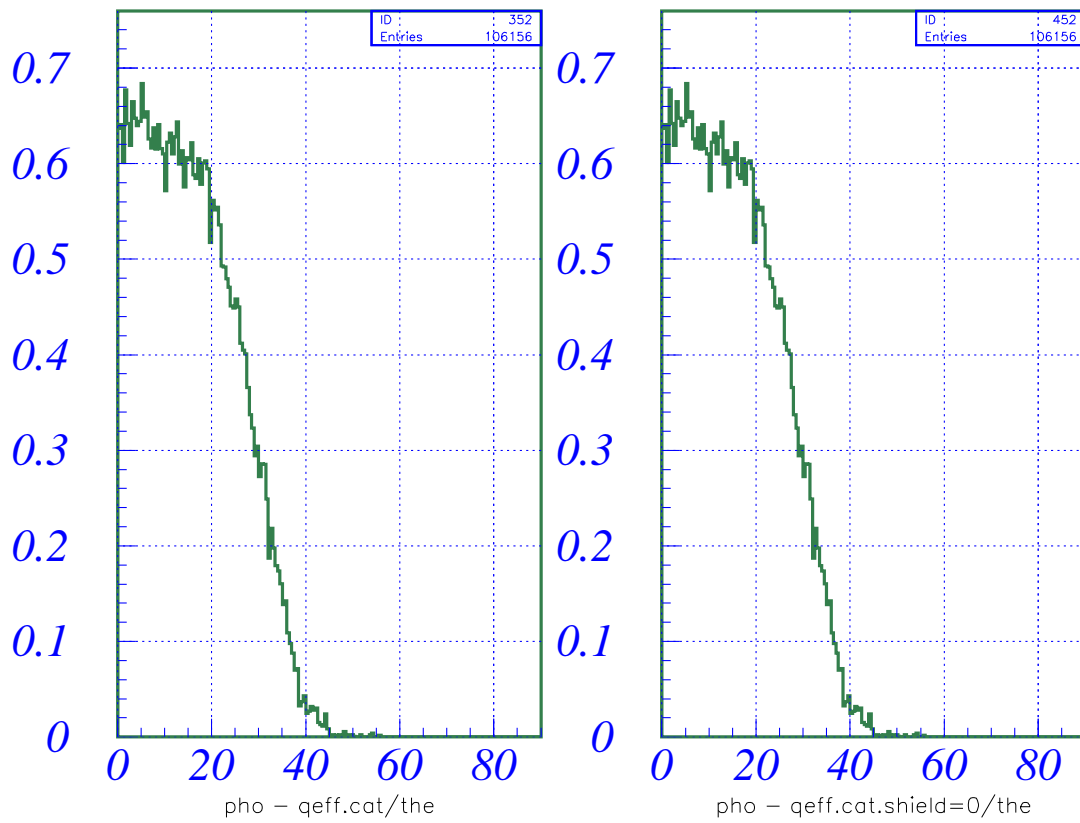Figure 2: pmt quantum eff.

Shielding absorption=100%

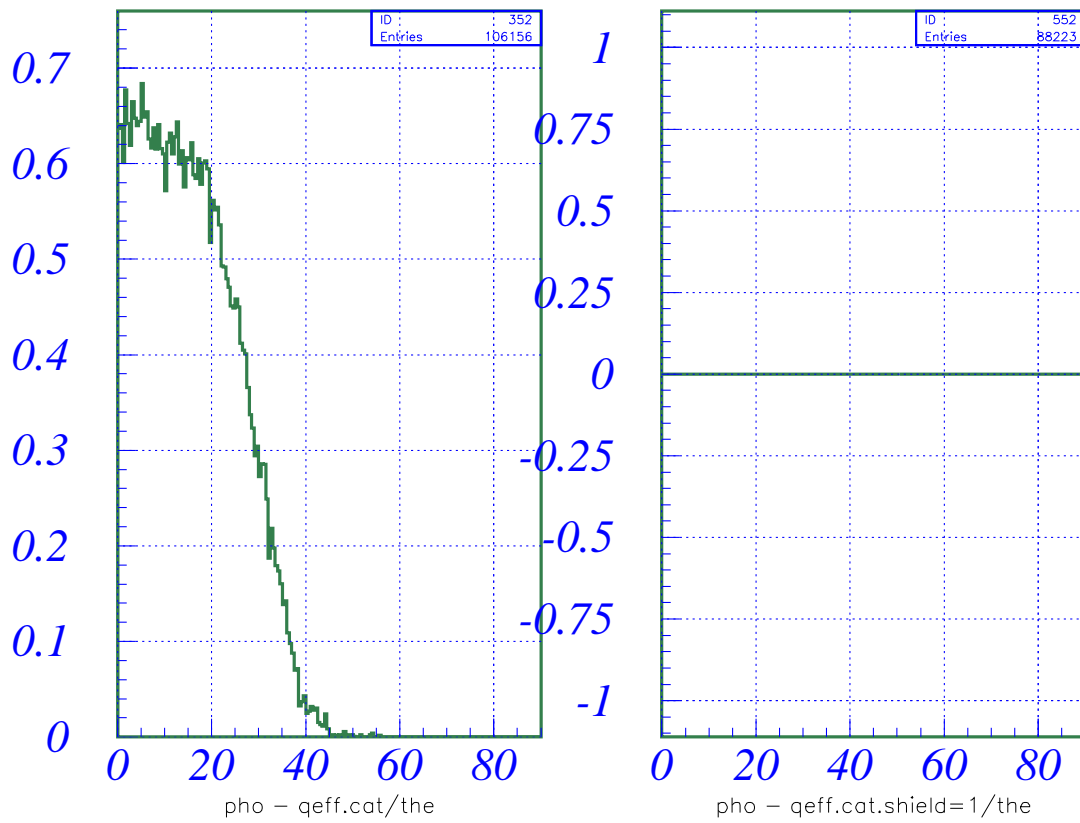Figure 3: light guide eff for photons do not reflecting from shielding (shielding absorption=100%).

Figure 4: light guide eff for photons reflecting from shielding (shielding absorption=100%).
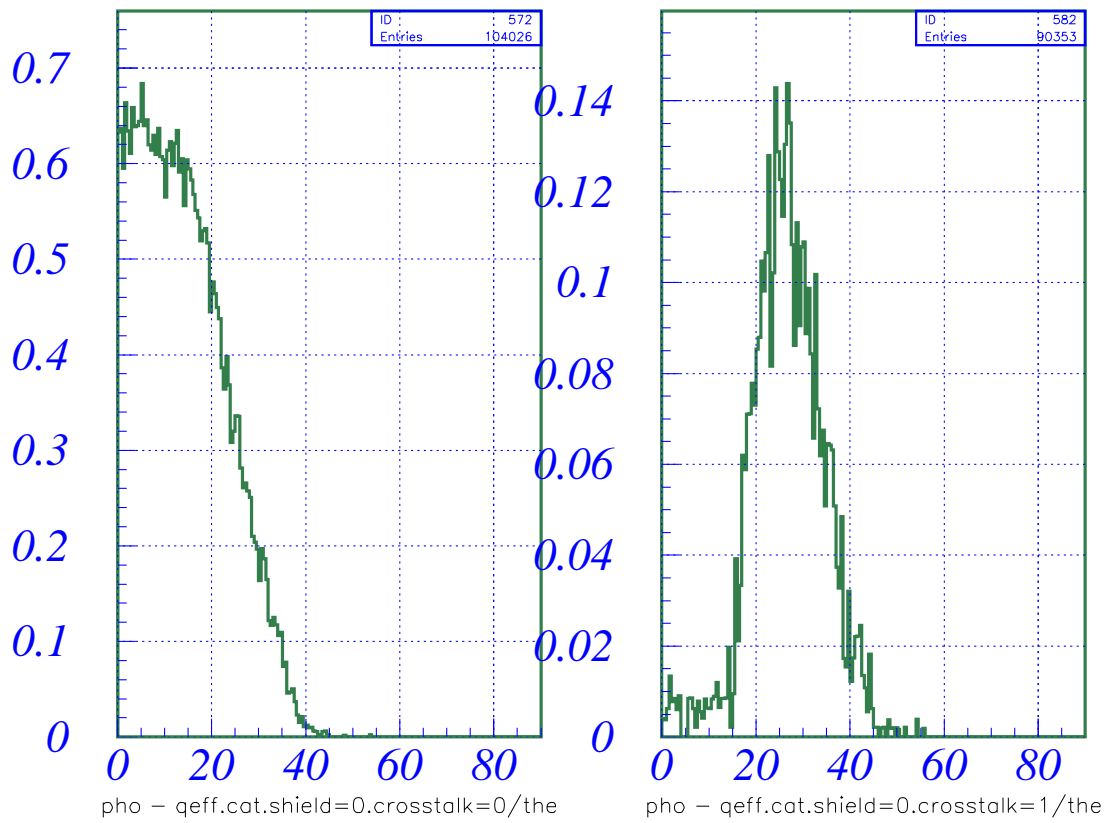
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Figure 5: light guide eff: pixel crosstalk (shielding absorption=100%).
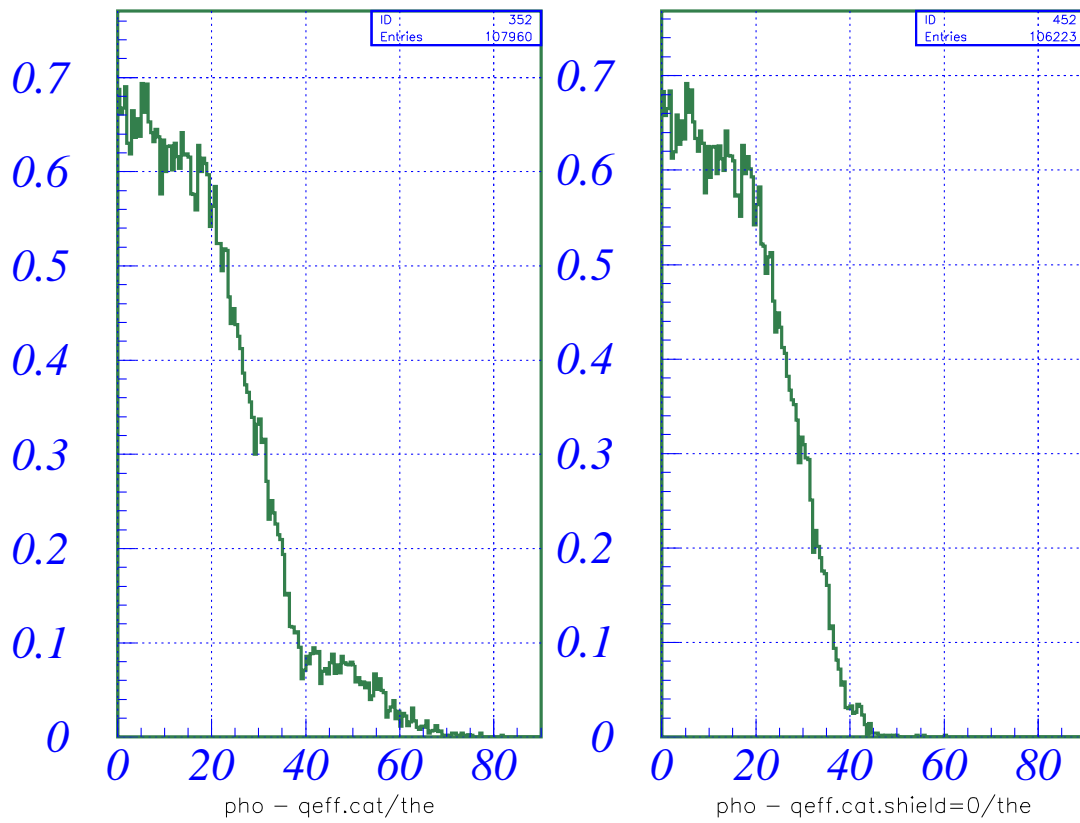
Shielding absorption=0%
Roughness = 0

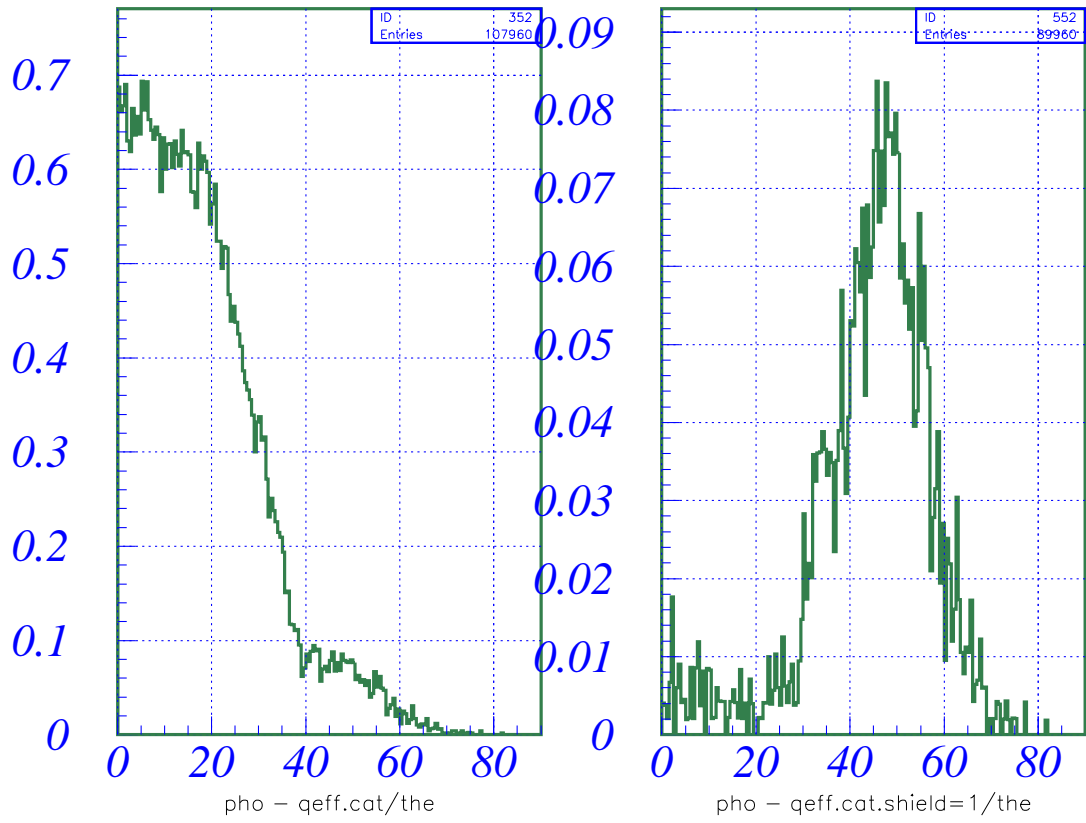Figure 6: light guide eff for photons do not reflecting from shielding.

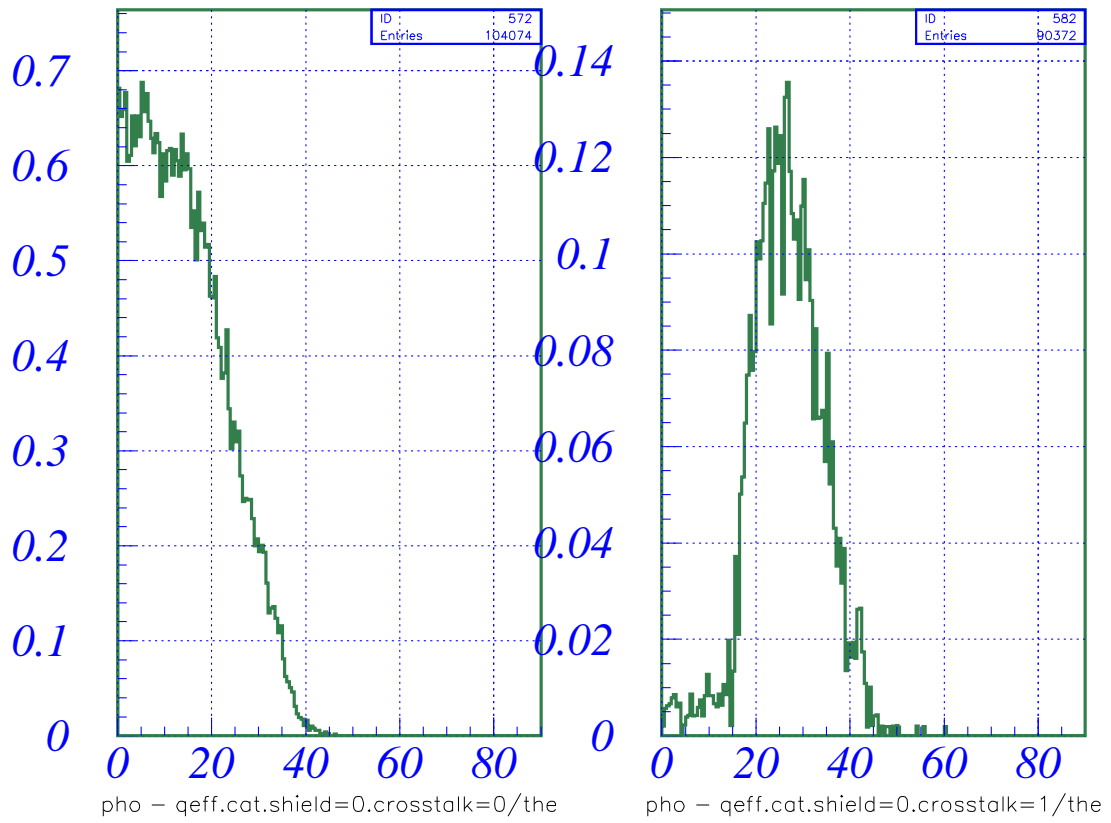Figure 7: light guide eff for photons reflecting from shielding.
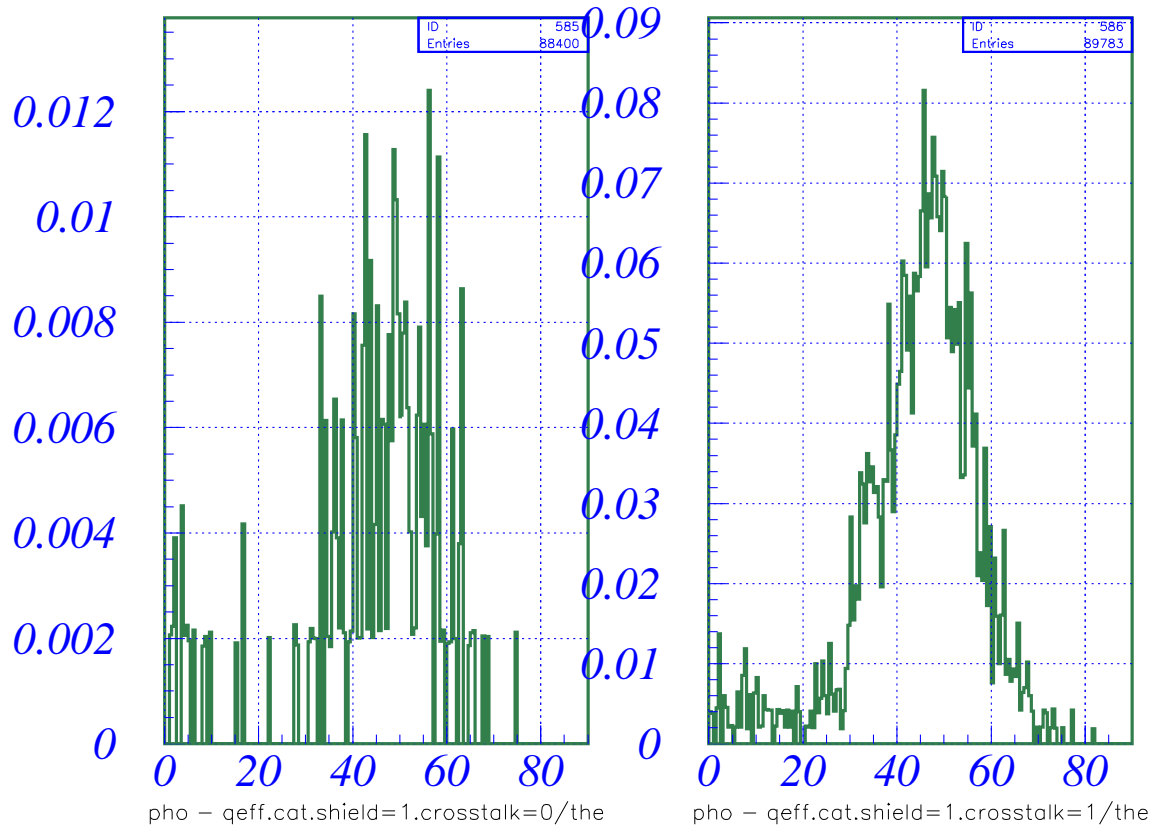
Figure 8: light guide eff: pixel crosstalk(shi=0) .

Figure 9: light guide eff: pixel crosstalk (shi=1) .