Single photon in full sPHENIX detector

Relative energy resolution, ΔE/E

Incoming Energy (GeV)

2D-proj., η= 0.0-0.1 — ΔE/E = 3.7% ⊕13.5%/ √E

ΔE/E = 2.5% + 10.6%/ √E

2D-proj., η= 0.9-1.0 — ΔE/E = 3.2% ⊕14.0%/ √E

ΔE/E = 1.9% + 11.6%/ √E

1D-proj., η= 0.0-0.1 — ΔE/E = 2.5% ⊕13.6%/ √E

ΔE/E = 1.4% + 11.8%/ √E

1D-proj., η= 0.9-1.0 — ΔE/E = 3.2% ⊕11.8%/ √E

ΔE/E = 2.1% + 9.4%/ √E