

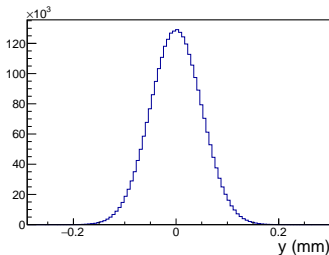
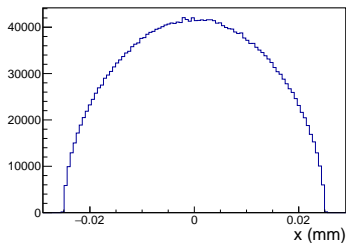
HyCal Trigger Efficiency

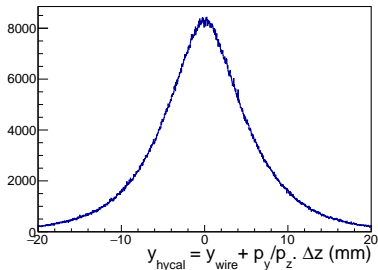
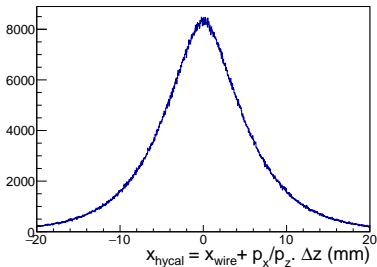
Maxime Levillain

December 1, 2016



- ▶ Simulation of photon beam profile provided by Ilya
- ▶ $\sigma_y = 50 \mu m$
- ▶ tungsten x wire with a thickness of $25 \mu m$

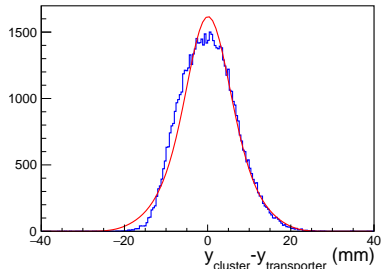
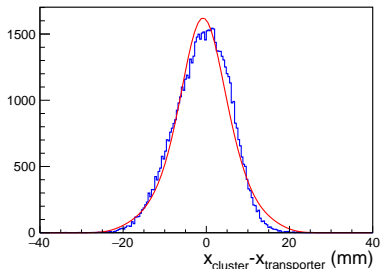




- ▶ Same distribution in x and y (fortunately)

- ▶ photon beam distribution f , gaussian distribution g and final distribution h

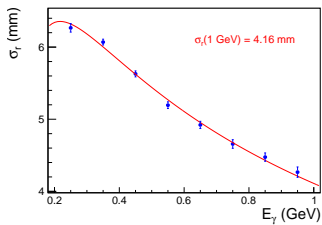
$$h(x) = \int_{-\infty}^{\infty} f(t) * g(x - t) dt$$



- ▶ Some problems to fit the shape for crystal at high energy

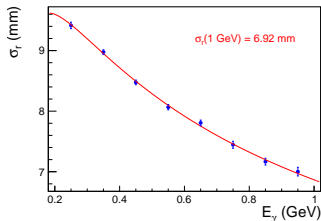
primex

LG

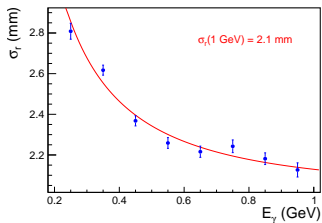


cpp

LG



PbWO₄



PbWO₄

