

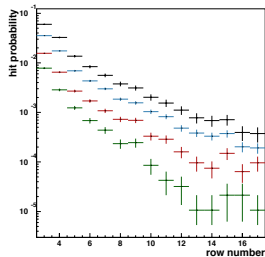
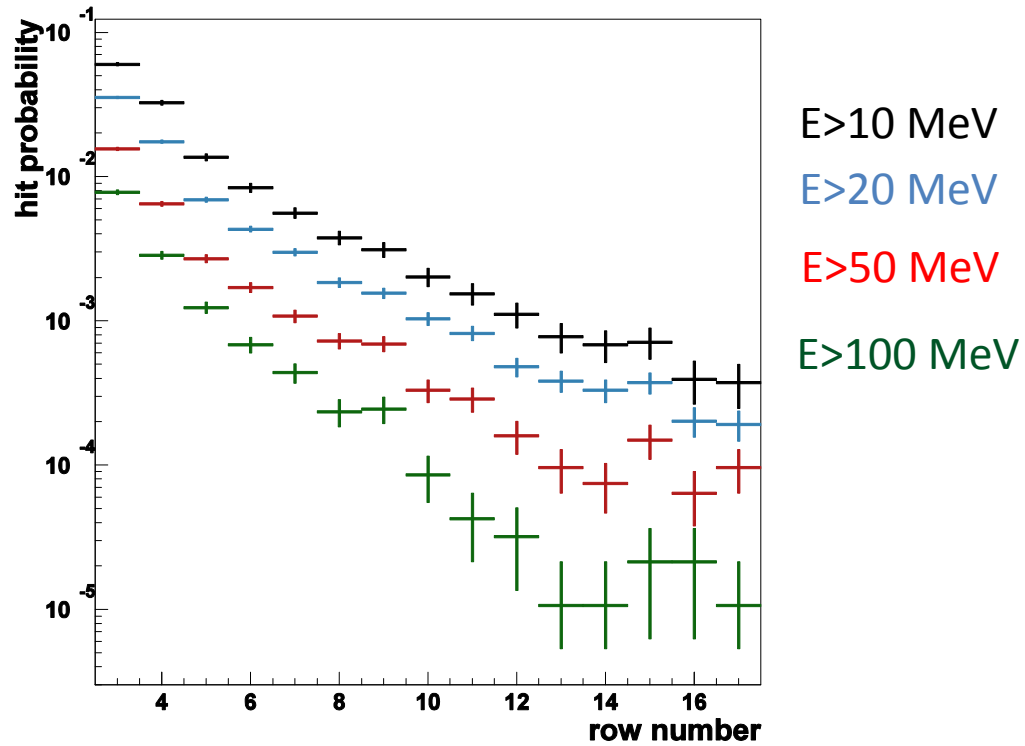
Pile-Up Events in PrimEx

Liping Gan

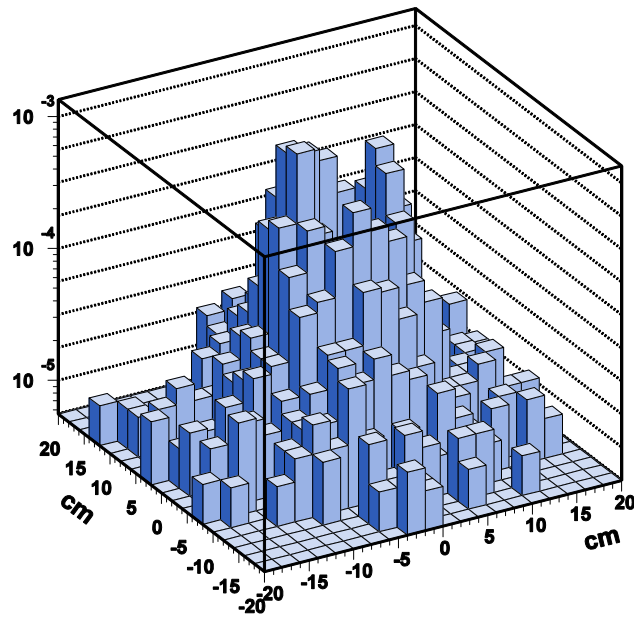
Control of Pile-up events in PrimEx Experiments

- During the experiment, we collect clock trigger (by a pulse generator) events to monitor the pile-up events.
- Offline, the clock trigger events are mixed in the Monte Carlo simulation in order to take into account the effect on detection efficiency due to pile-up events.
- PrimEx-I result is published. The effect on detection efficiency due to the pile-up events is less than 0.5%
- PrimEx-I luminosity: 3×10^{-4} radiator, $I=110\text{nA}$, 5% R.L. target
- PrimEx-II luminosity: 3×10^{-4} radiator, $I=110\text{nA}$, 10% R.L. target

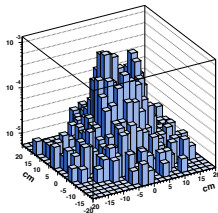
Hitting Probability per counter Vs. distance from the beam



Occupancy Probability on HYCAL



$E_\gamma > 0.5$ GeV



Multi- γ Channels from PrimEx-II

