

Important Questions for the Paper

- Which event selection should we for the SPS data?
 - 5σ cut?
 - 5σ cut + shower shape-based discrimination? ← Selects cleaner sample and yields better resolution
- Simulation with or without energy spread?
 - Enough statistics for 0 spread: 50k events per energy
 - Low statistics for simulation with spread: 10-20k events per energy (but I could produce more over the next weeks)
- How do we treat the alternative detector response?
 - Apply it to every plot after section 4?
 - Only treat it as an addon and use standard response for every other plot?