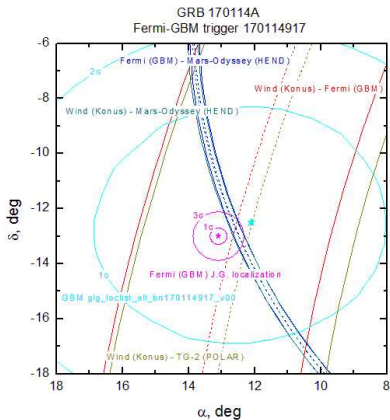


The importance of location measurements

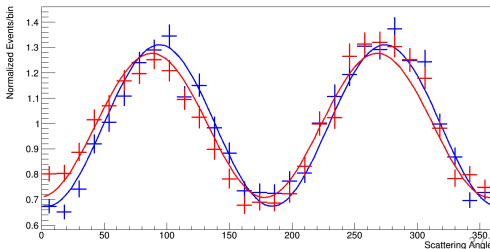
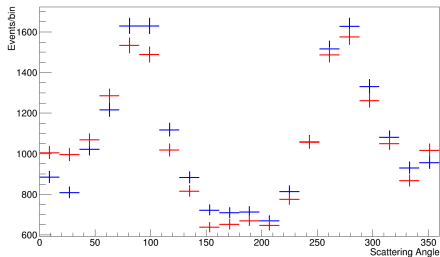
Merlin Kole



November 29th, 2018

GRB Polarization Analysis

- $P = \frac{\mu}{\mu_{100}}$
- Response (μ_{100}) depends on incoming angle GRB
- Uncertainty in the GRB location results in systematic error on polarization
- For many GRBs we don't have a proper location
- Several GRBs unanalyzed since we have no location information



Induced sys. error

- GBM systematic error already results in a relative systematic error of 2.5%.
- Sub degree precision needed.

