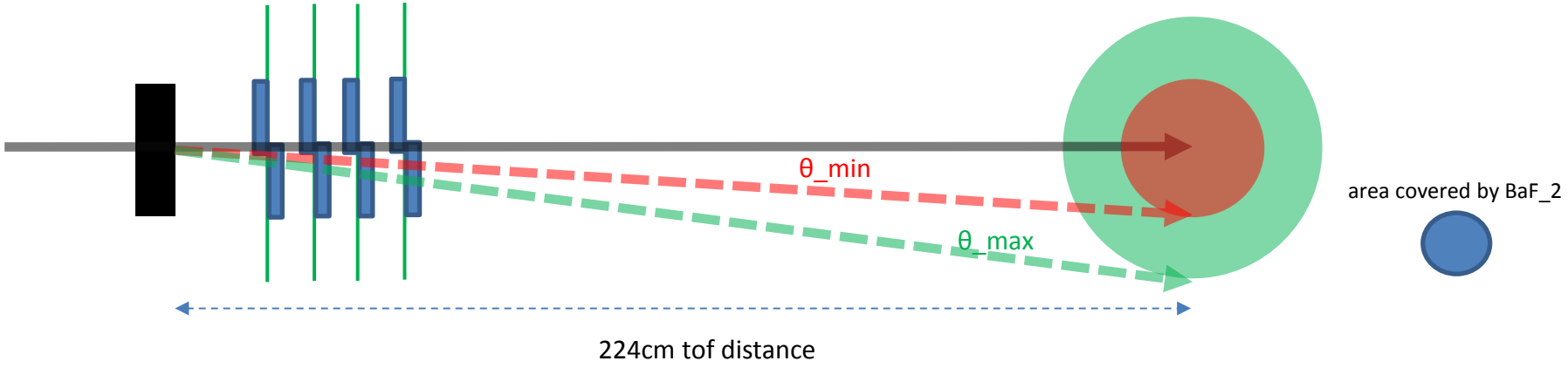
Cave A vs FIRST

Failed attempts

Basic idea

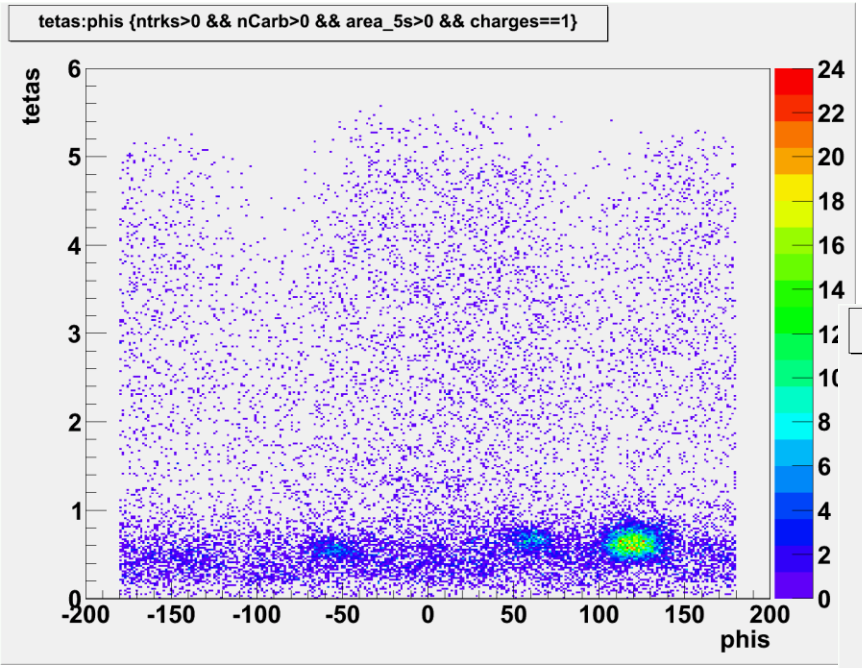


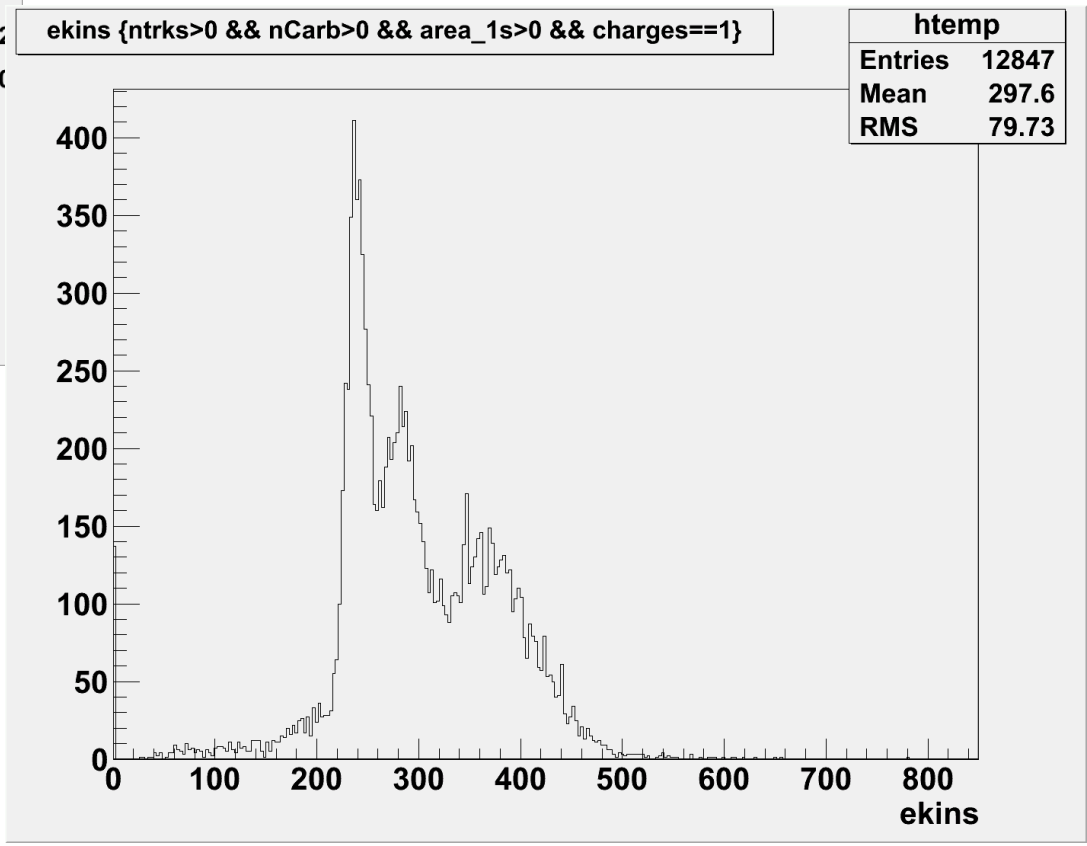
- reproduction of Cave A geometry using fixed area approach
  - calculation of area size
  - calculate track intersect -> Hit?
  - downscaling for yields, other spectra should be comparable directly

Problems

- different target thickness
- unknown target density (FIRST)
- geometrical errors (Cave A)
- Yields quite robust concering small changes
  - bad benchmarking parameter
- Kinetic energy spectra
  - still problematic for FIRST data

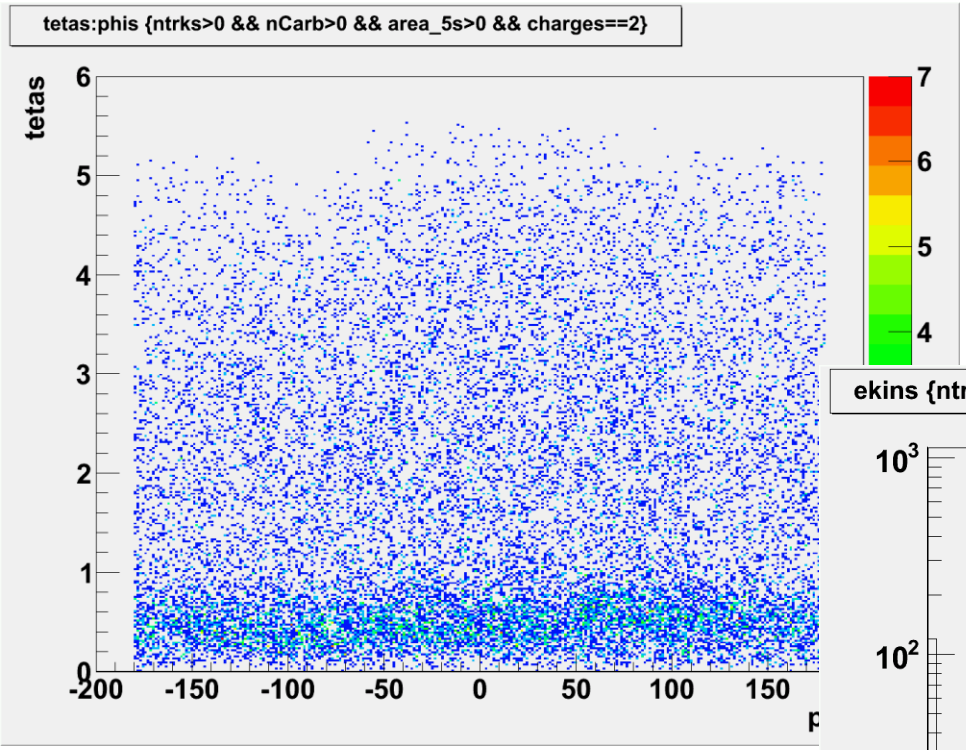
Systematic check

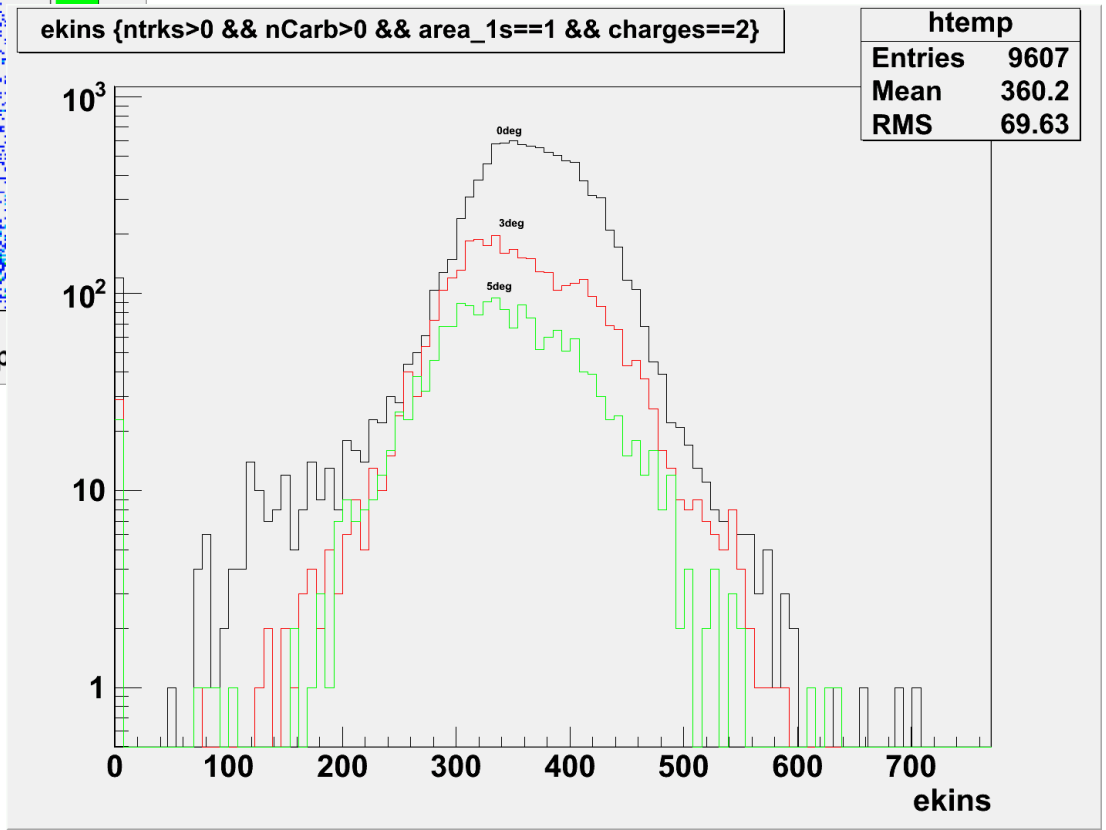




Problems with z=1 known

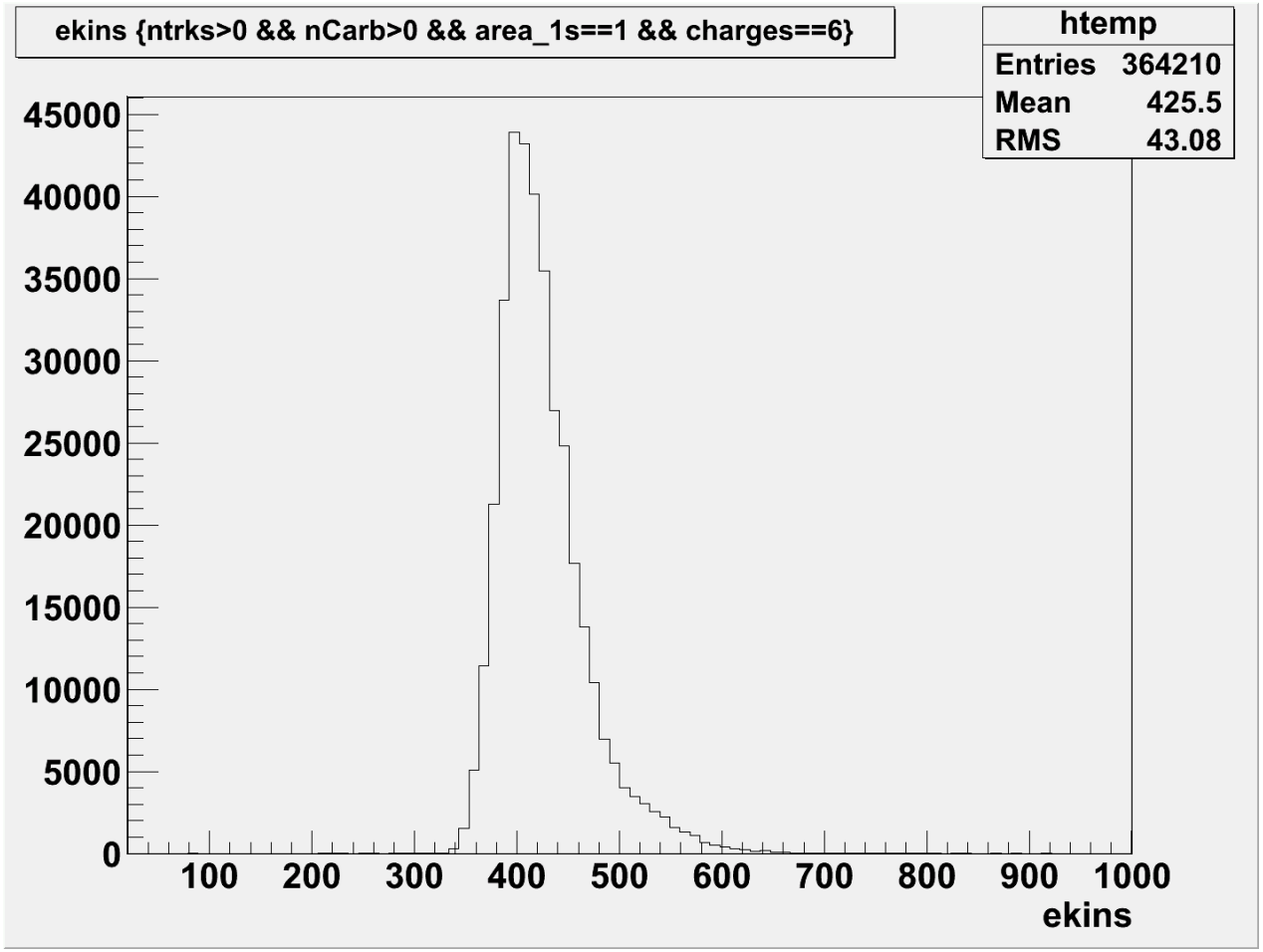
Systematic check





Z=2 Overall not to bad

Systematic check



z=6 known problems

Systematic check

Z	1	2	3	4	5	6
inside 5deg	0,93304599	0,92474209	0,96113899	0,97821287	0,99361423	0,99763911

- Comparison with Yield
  - unknown correction values for
    - geometry (Cave A)
    - target density/thickness
    - efficiencies (FIRST)

- Comparison with Energy
  - see plots before

=> with the the information currently avaliable to me, a comparison of FIRST and Cave A data is not possible at the moment