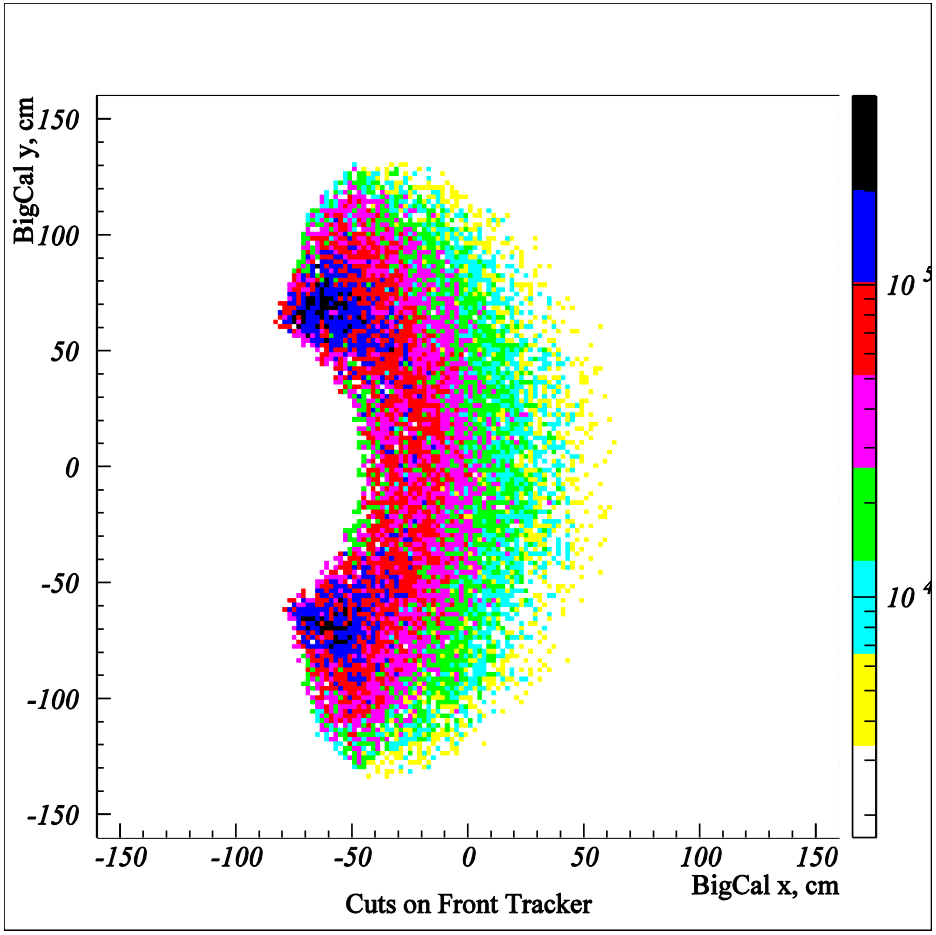
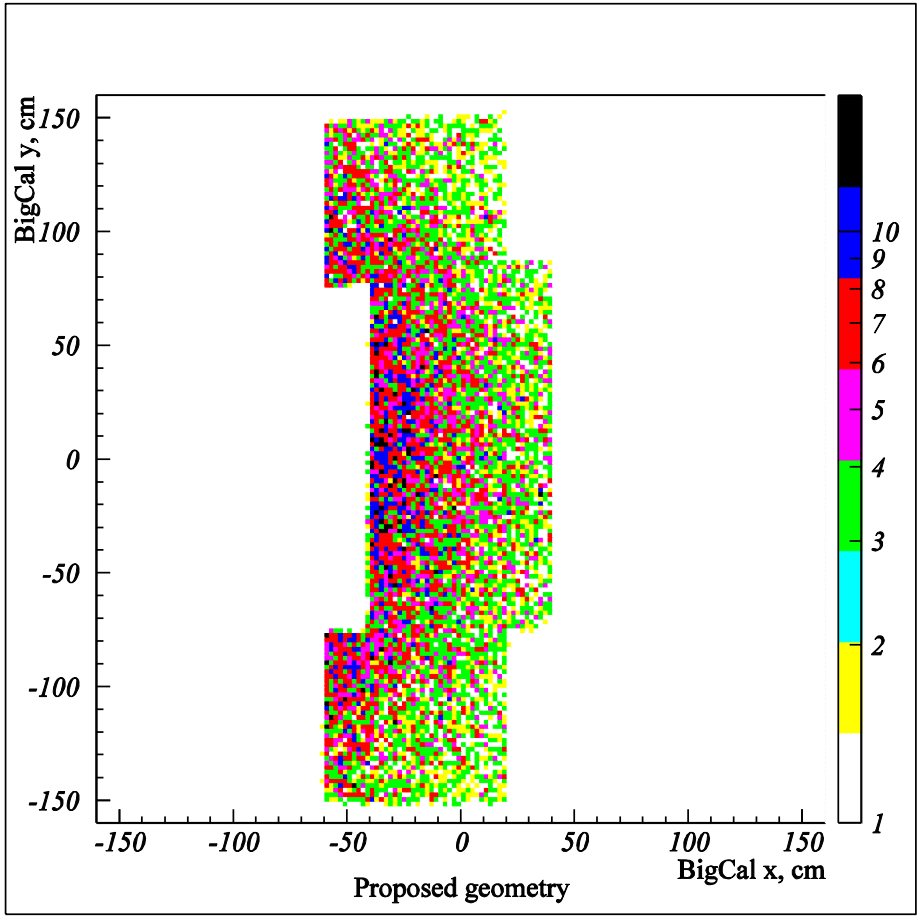
BigCal geometry simulations:

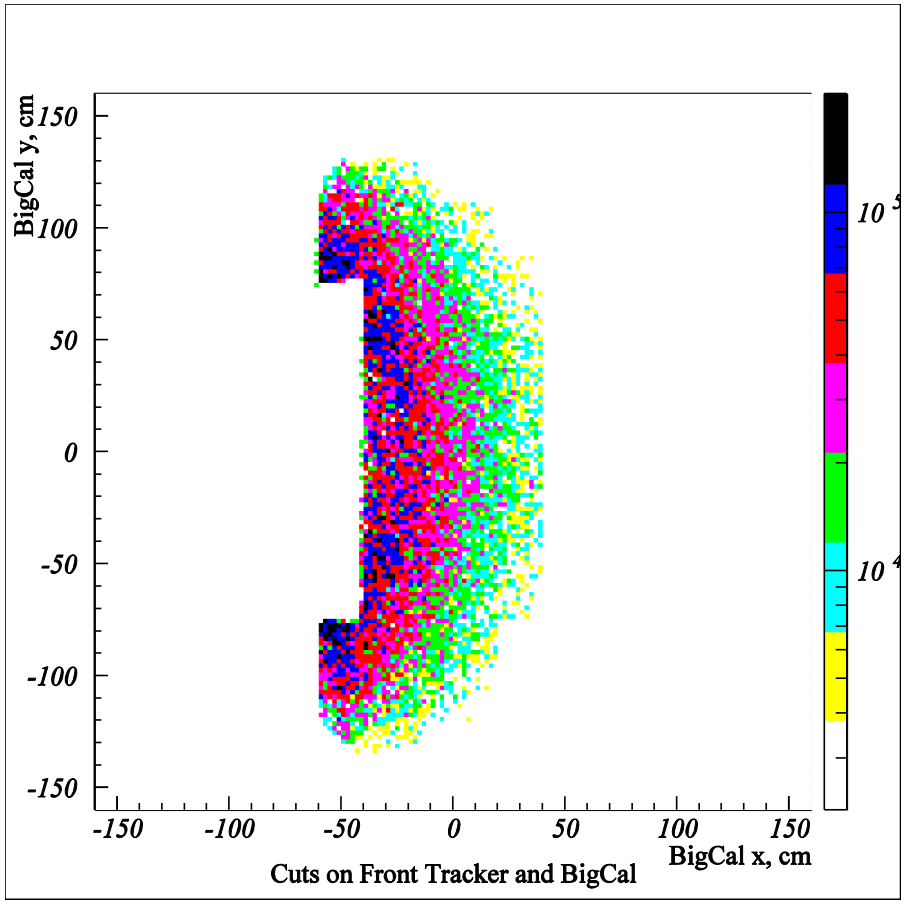
- SBS at 16.9^0
- BigCal 3.5m from the target at 29^0
- E=11GeV, p0=7.43GeV $<Q^2>=12GeV^2$
- 30 cm LH target
- Toy Monte Carlo:
    - Target interaction: using elastic x-section
    - Electron transported directly to BigCal
    - Proton transported to the focal plane using first order transport coefficients
    - Scattering in the two analyzers: simulates efficiencies and azimuthal asymmetries using GEP results

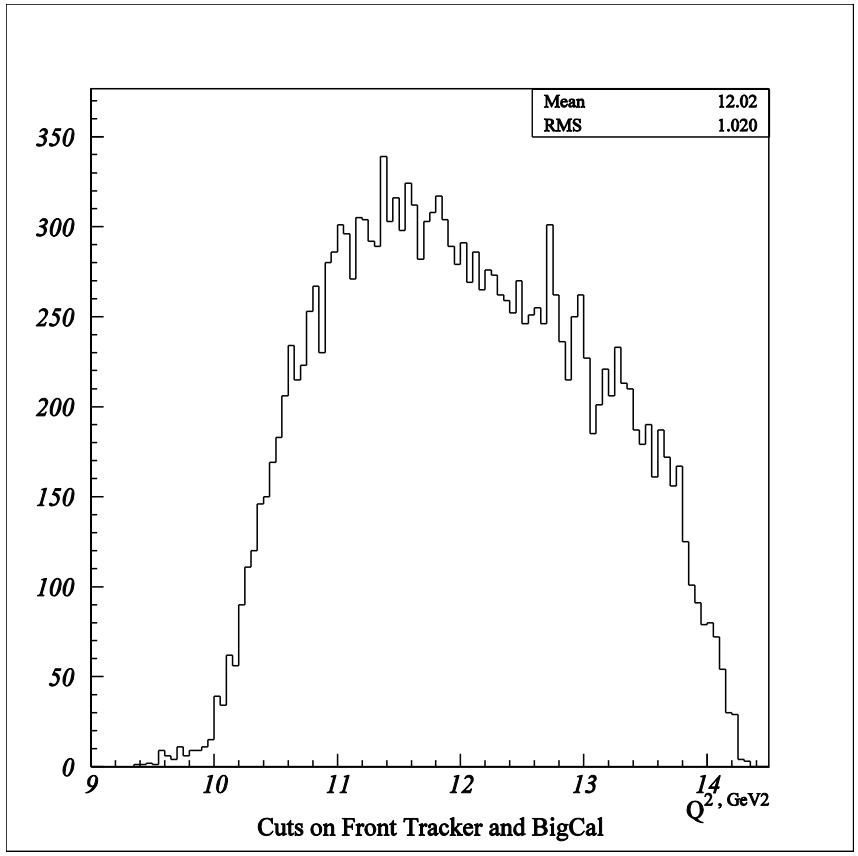




Elastic electrons at BigCal position applying cuts on the Front Tracker sizes
0 cm corresponds to 29 deg

Proposed BigCal geometry, (certainly can be improved!)





Applying both cuts, First Tracker and BigCal sizes:

Elastic electrons at BigCal (left),

Q^2 distribution (right) – certainly $<Q^2>$ depends on the BigCal shape