

BigBite Analysis

Transversity BB Shower class, BB PreShower Location

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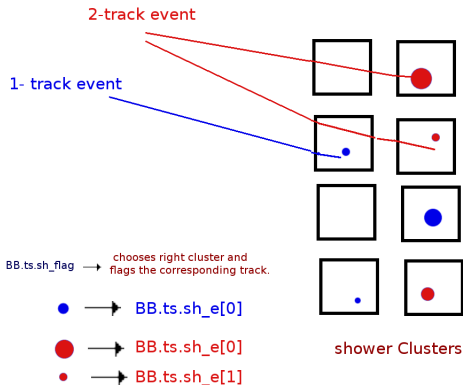
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10/21/2010

Outline

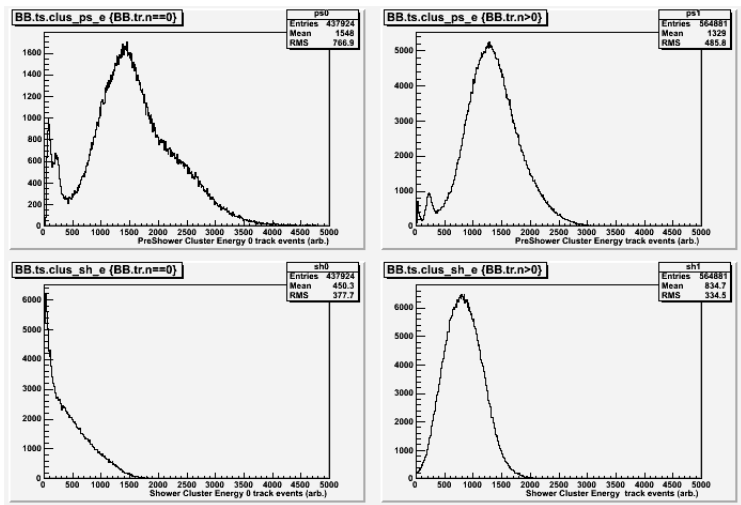
- 1 BB Transversity Shower Class Clarification
- 2 BB PreShower Location
- 3 Summary
- 4 What's Next

Cluster/track matching



- For 1-track events there can be **multiple clusters** and largest cluster may **not** always match with **track position**.
- **BB.ts.sh_flag_tr** chooses the **right cluster** and **flags** the corresponding matched track
- In this way it **flags** the **multiple track** events too, but matching the **right cluster** (based on position matching in shower+preshower)
- This variable should be indexed with **tracking** variables

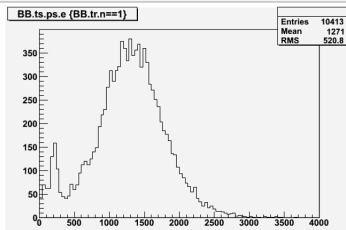
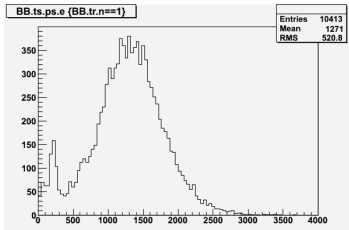
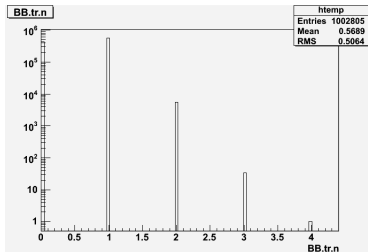
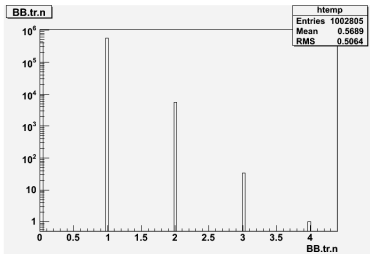
Transversity Track Free Clusters



d2b BigBite PreShower Location Dependence

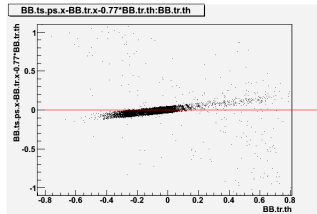
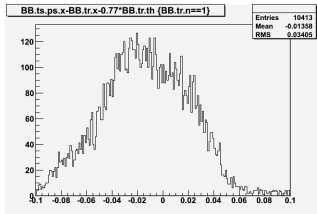
PreShower $z = 0.77\text{m}$ in
db_BB.ts.ps.dat

PreShower $z = 0.97\text{m}$ in
db.ts.ps.dat

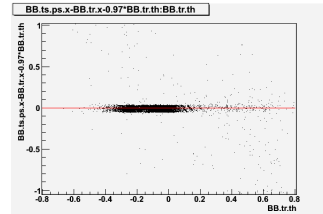
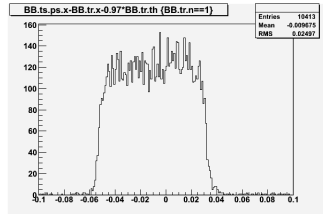


d2b BigBite PreShower Location Track Match

PreShower $z = 0.77\text{m}$



PreShower $z = 0.97\text{m}$



Summary

- PreShower position **does not** affect events or energy (as it should)
- PreShower location **does** affect the track matching resolution
- Have been working on doing a finer skimmed production run list
 - Finished 5-pass 270 deg. production run list
 - Finished 5-pass 90 deg. production run list
 - Finished 5-pass 0 deg. production run list

For Next week

- Start 4-pass production run list
- Continue BB Shower Calibration