Angular & Energy Distributions

Ch. Finck on behalf of D. Juliani

Vertex Cluster Size

Mass

Efficiencies

Angular Distribution

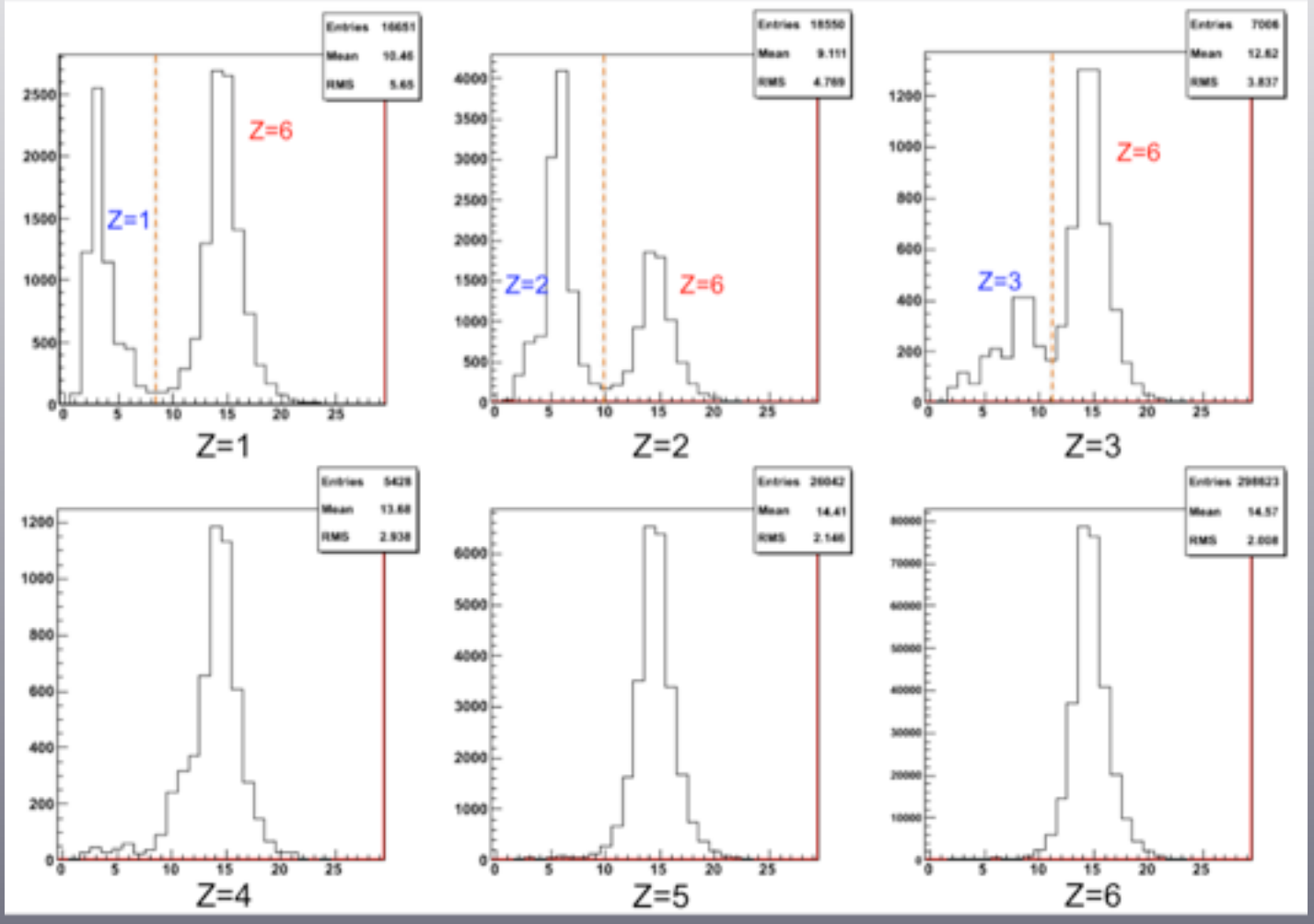
Energy Distribution

Distribution Z = 1

Conclusion

Vertex Cluster Size (i)

- Clusters size vs charge (ToF)
  - no cuts

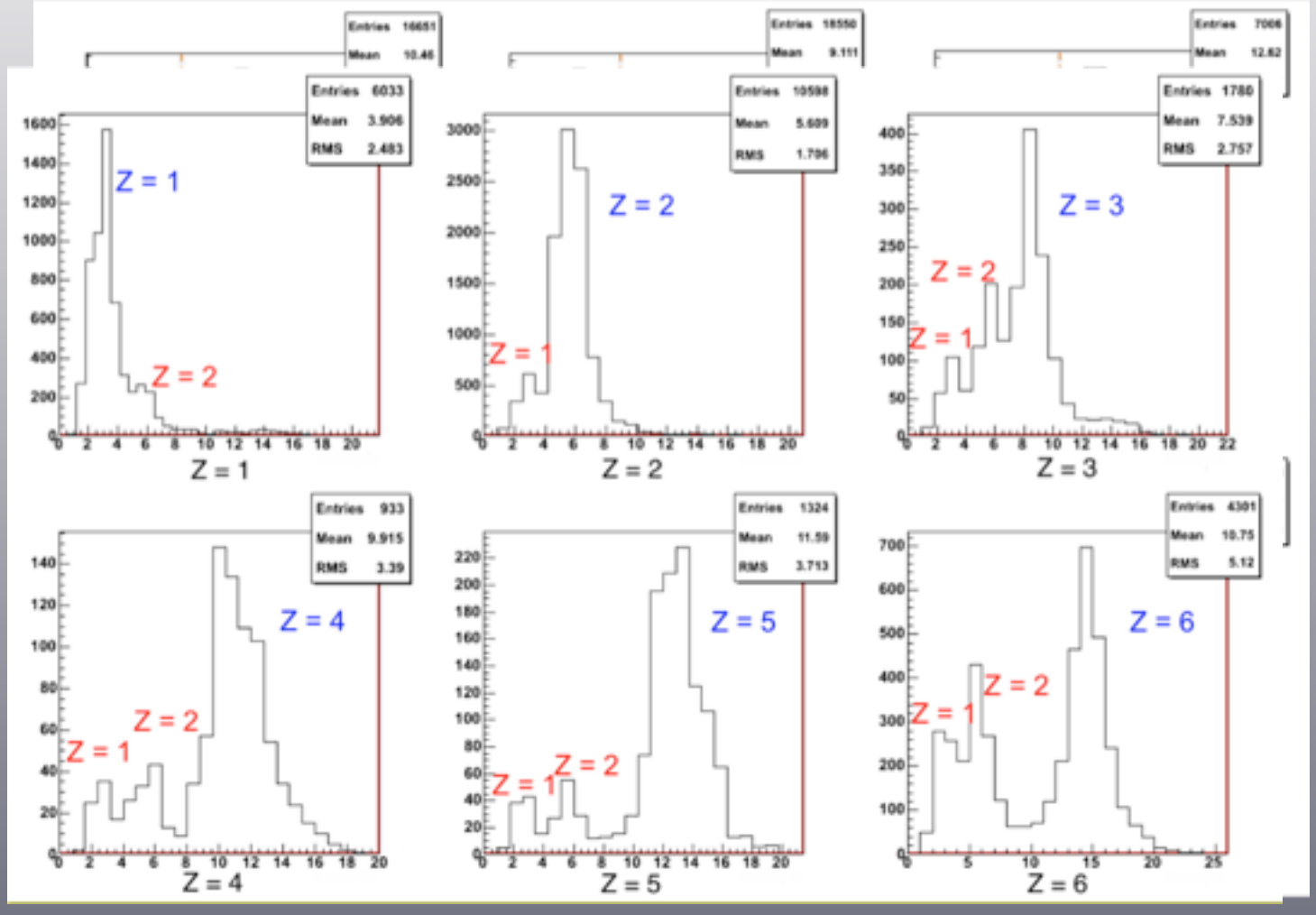


Vertex Cluster Size (i)

- Clusters size vs charge (ToF)

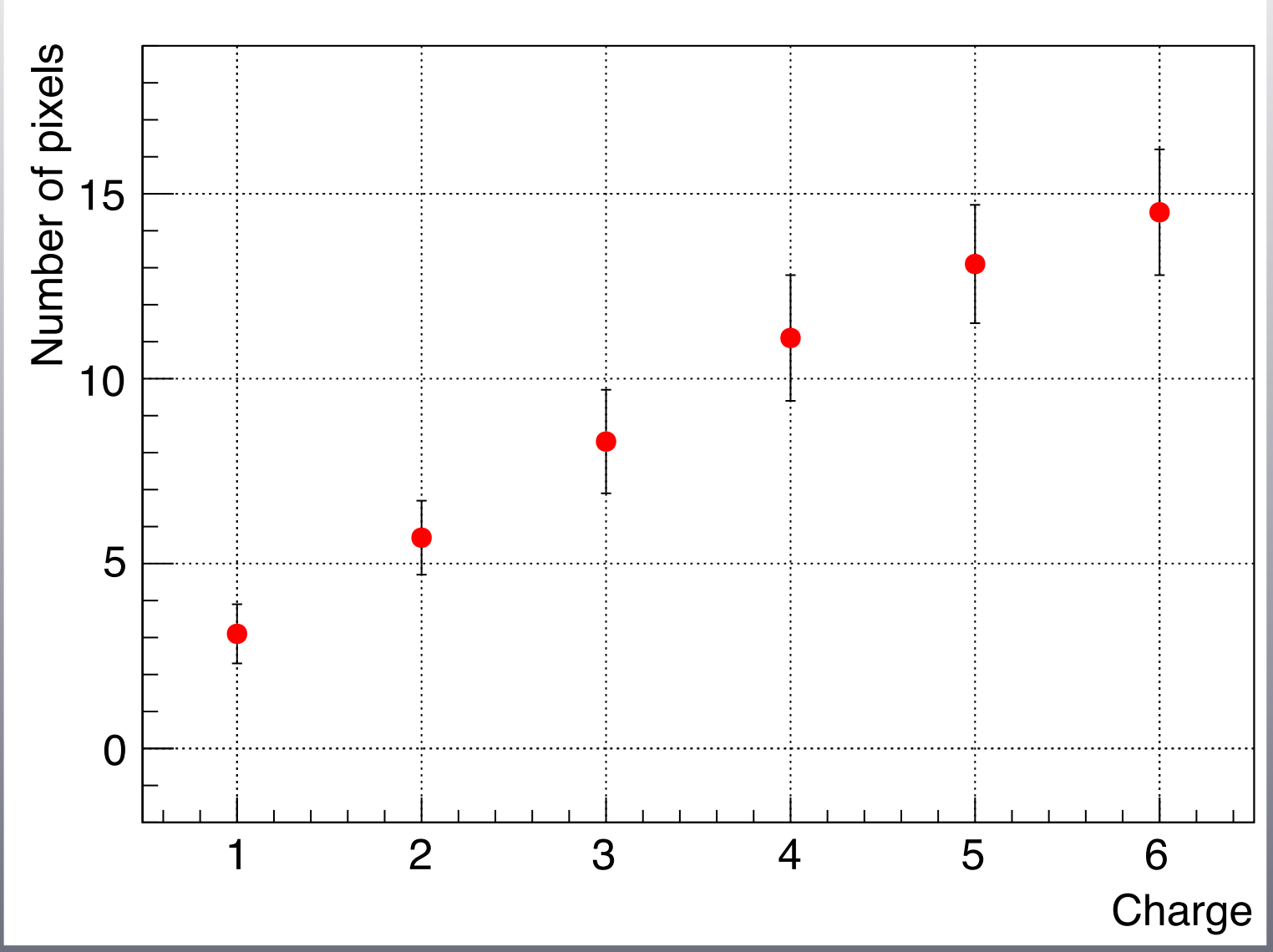
  - no cuts

  - with cut nTracks > 1



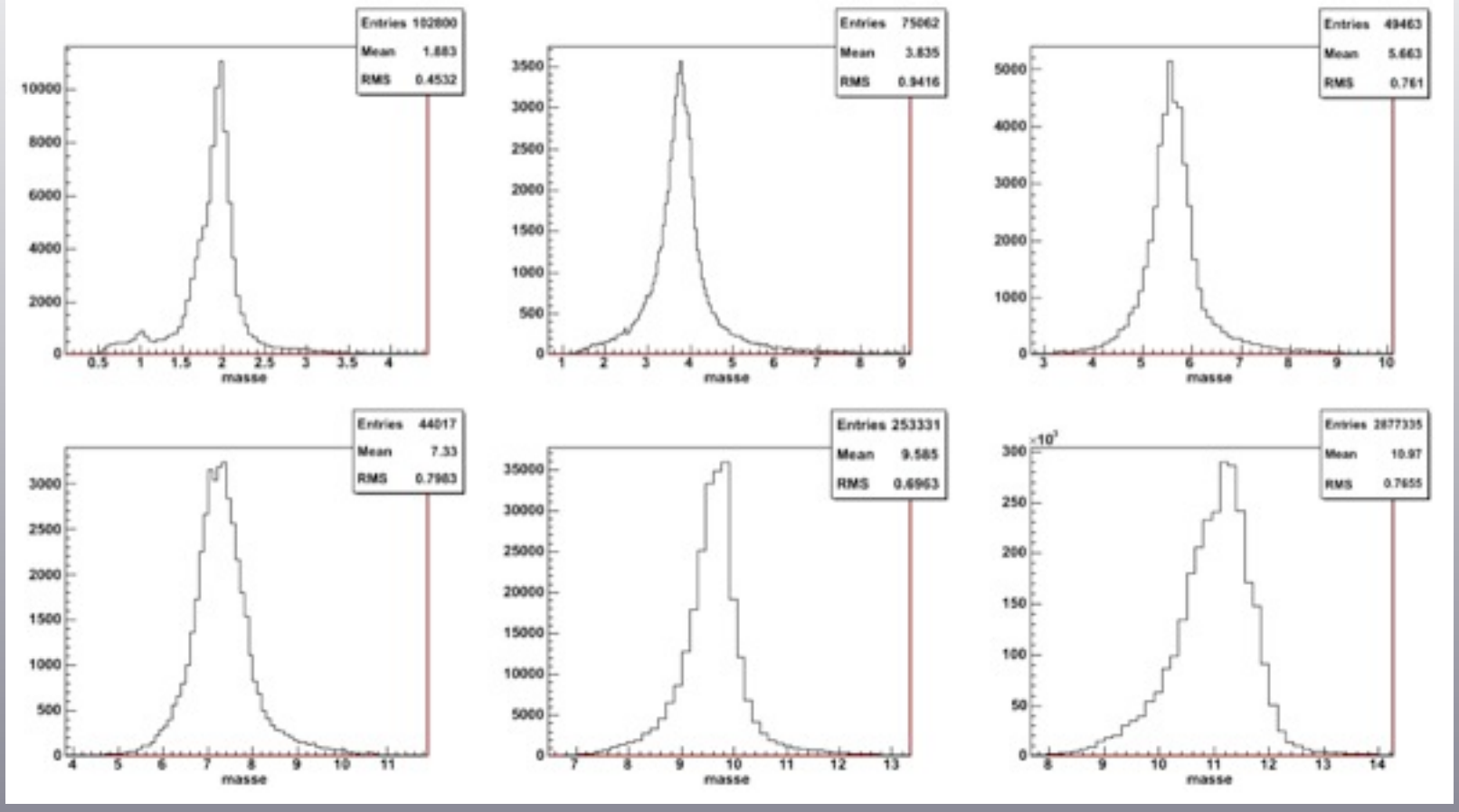
Vertex Cluster Size (ii)

- Cluster size vs charge



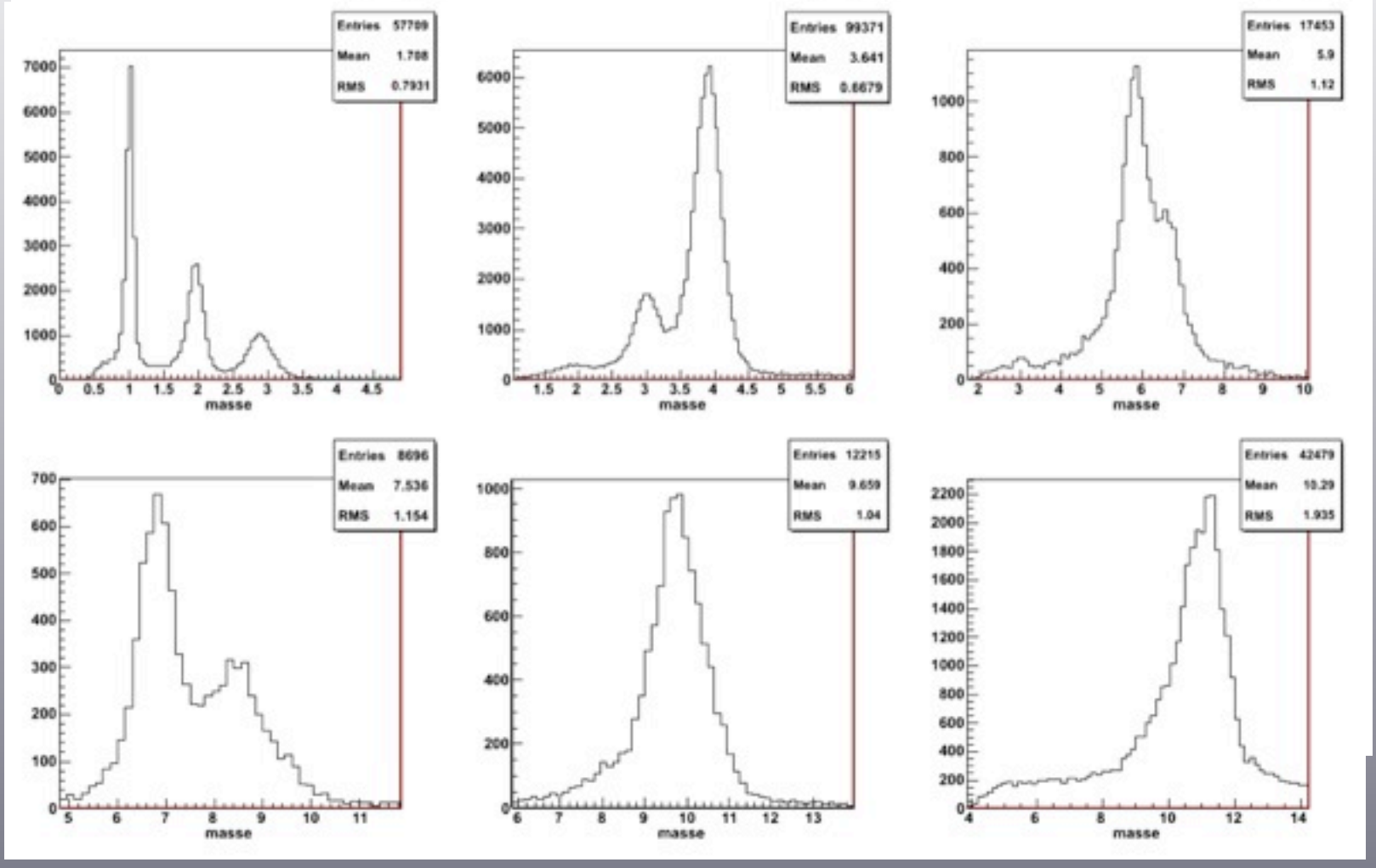
Mass Distribution

- Global reconstruction:
  - no cut



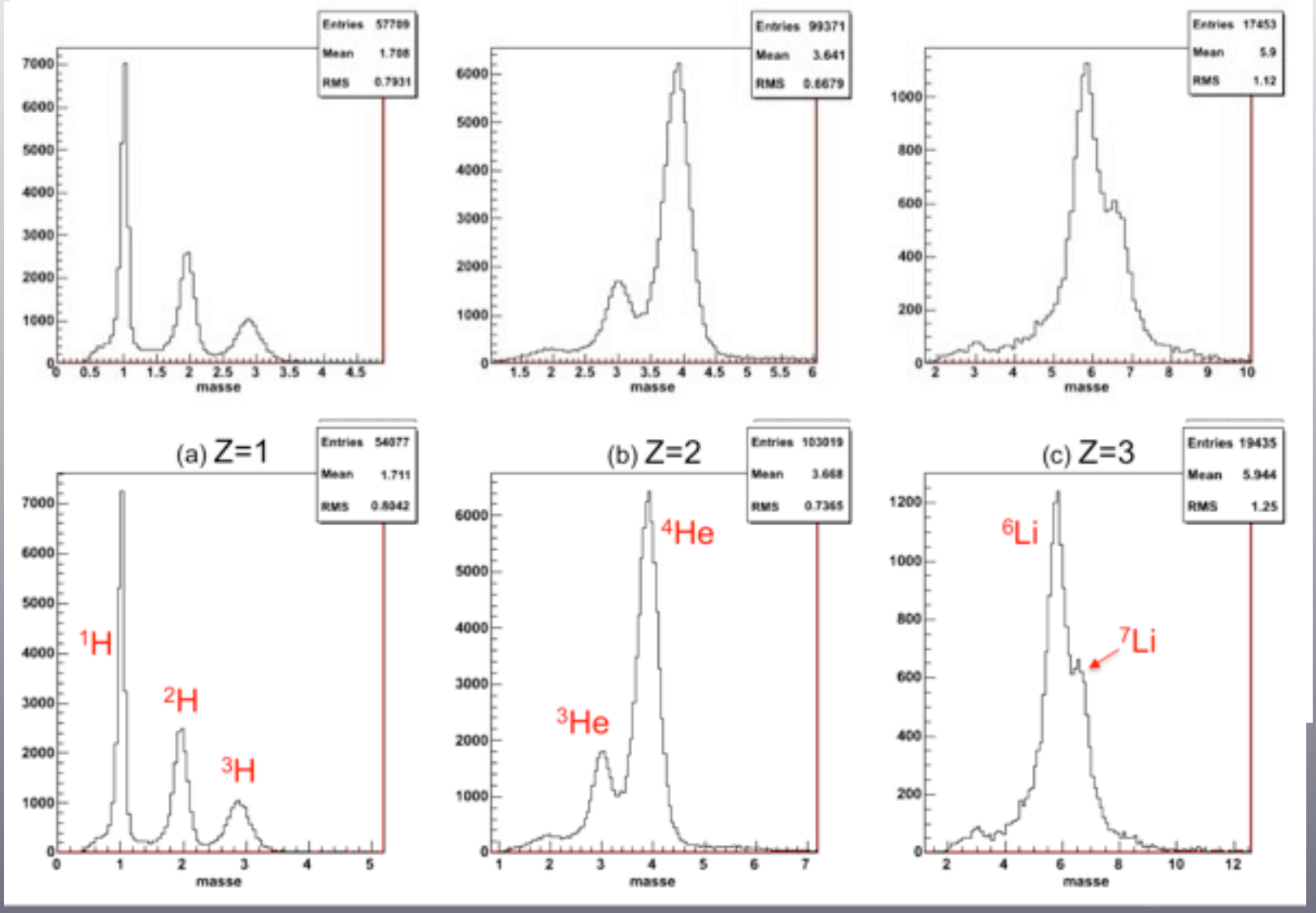
Mass Distribution

- Global reconstruction:
  - no cut
  - nTracks > 1



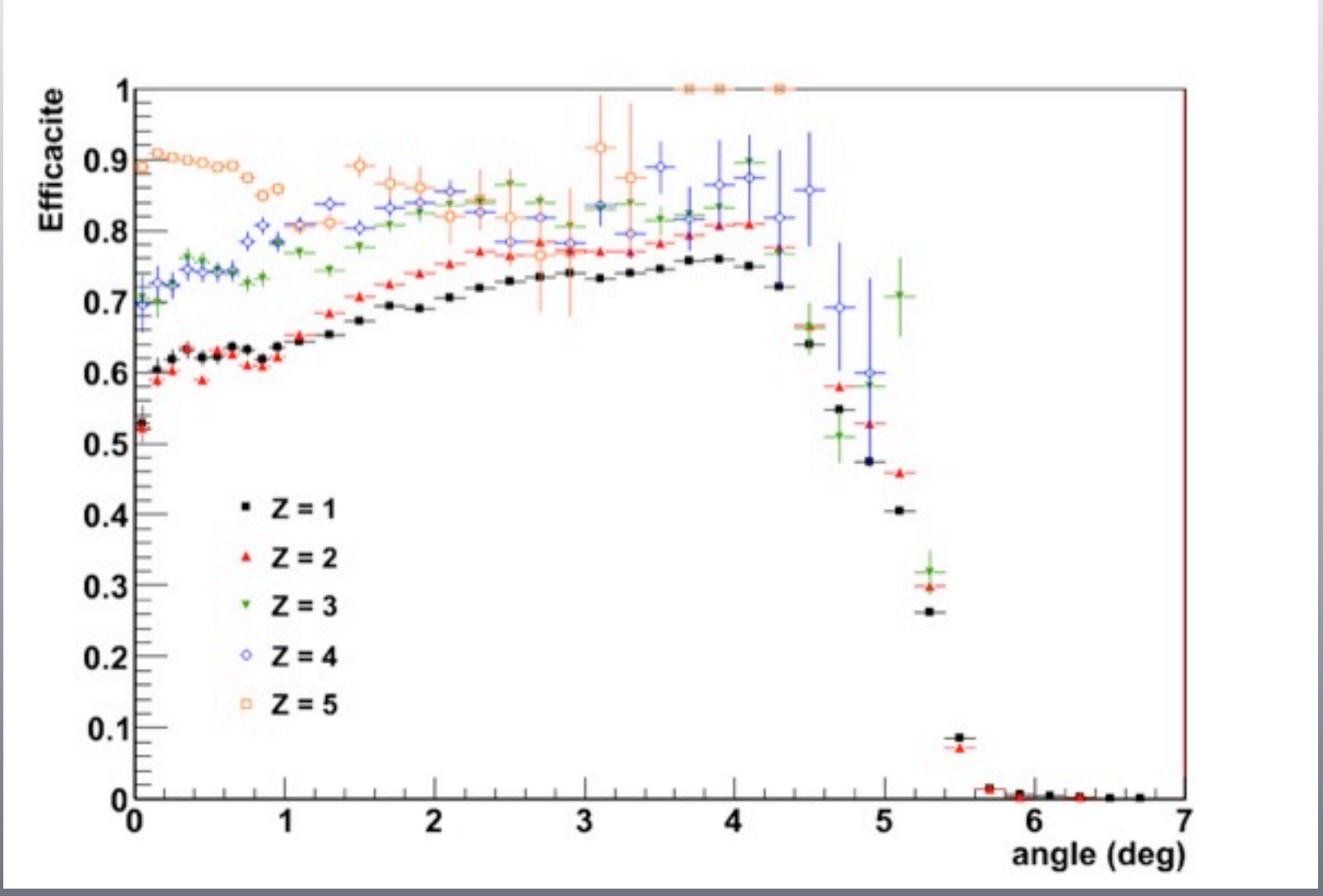
Mass Distribution

- Global reconstruction:
  - no cut
  - nTracks > 1
  - Cut cluster



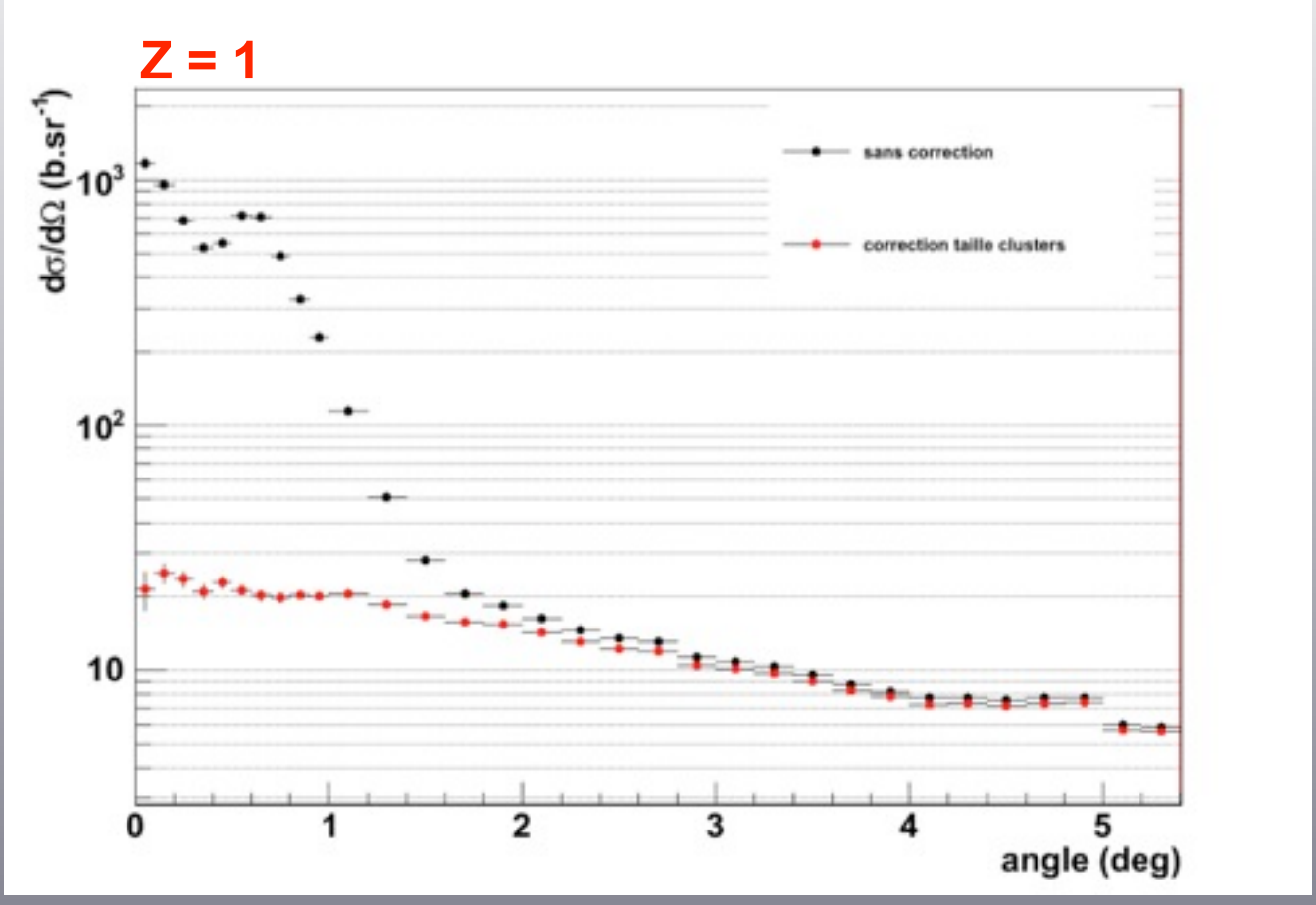
Efficiencies

- versus angle Z = 1 -5



Angular Distribution (i)

- Distribution for Z = 1-3 w/o and with cut (cluster size)



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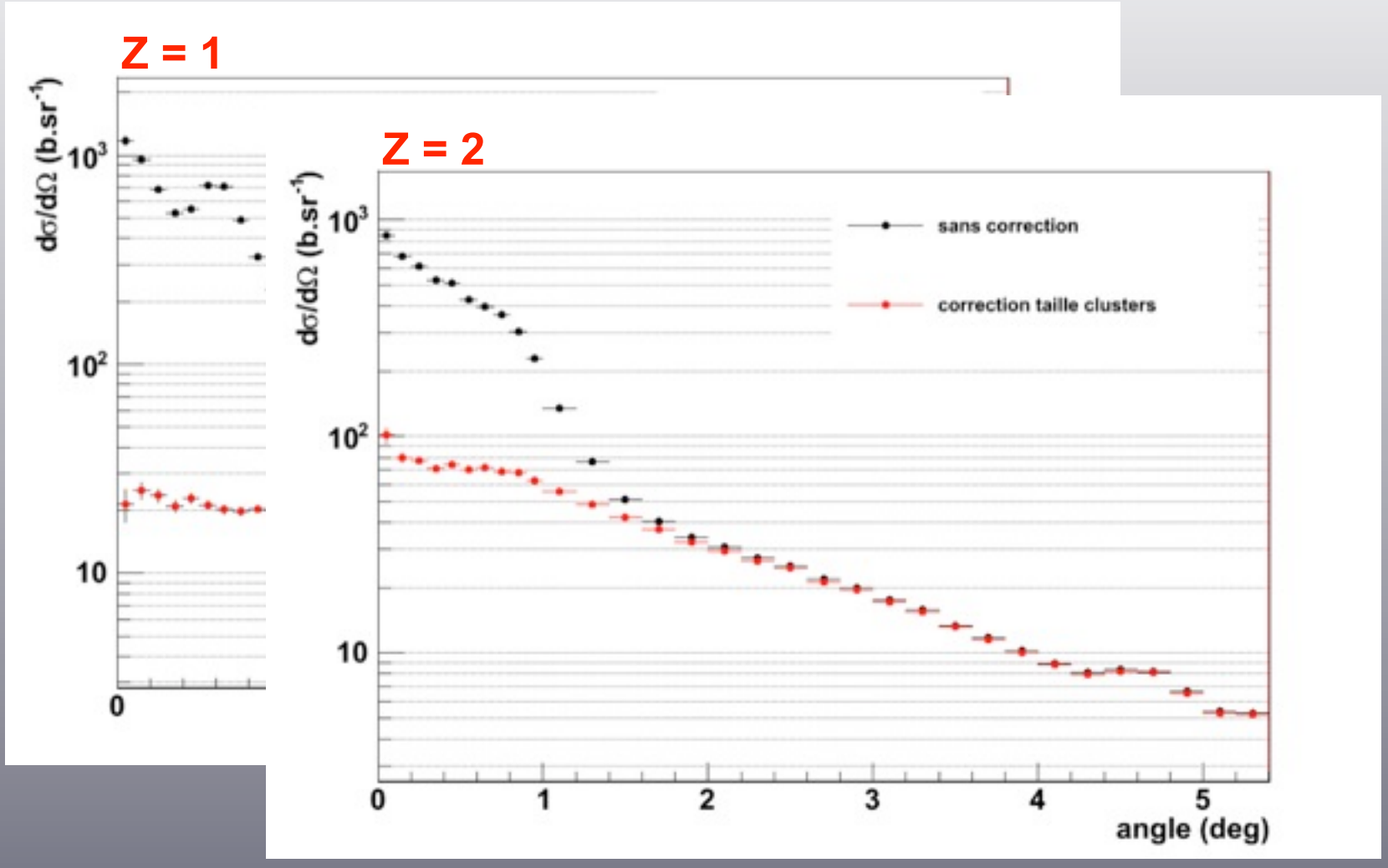

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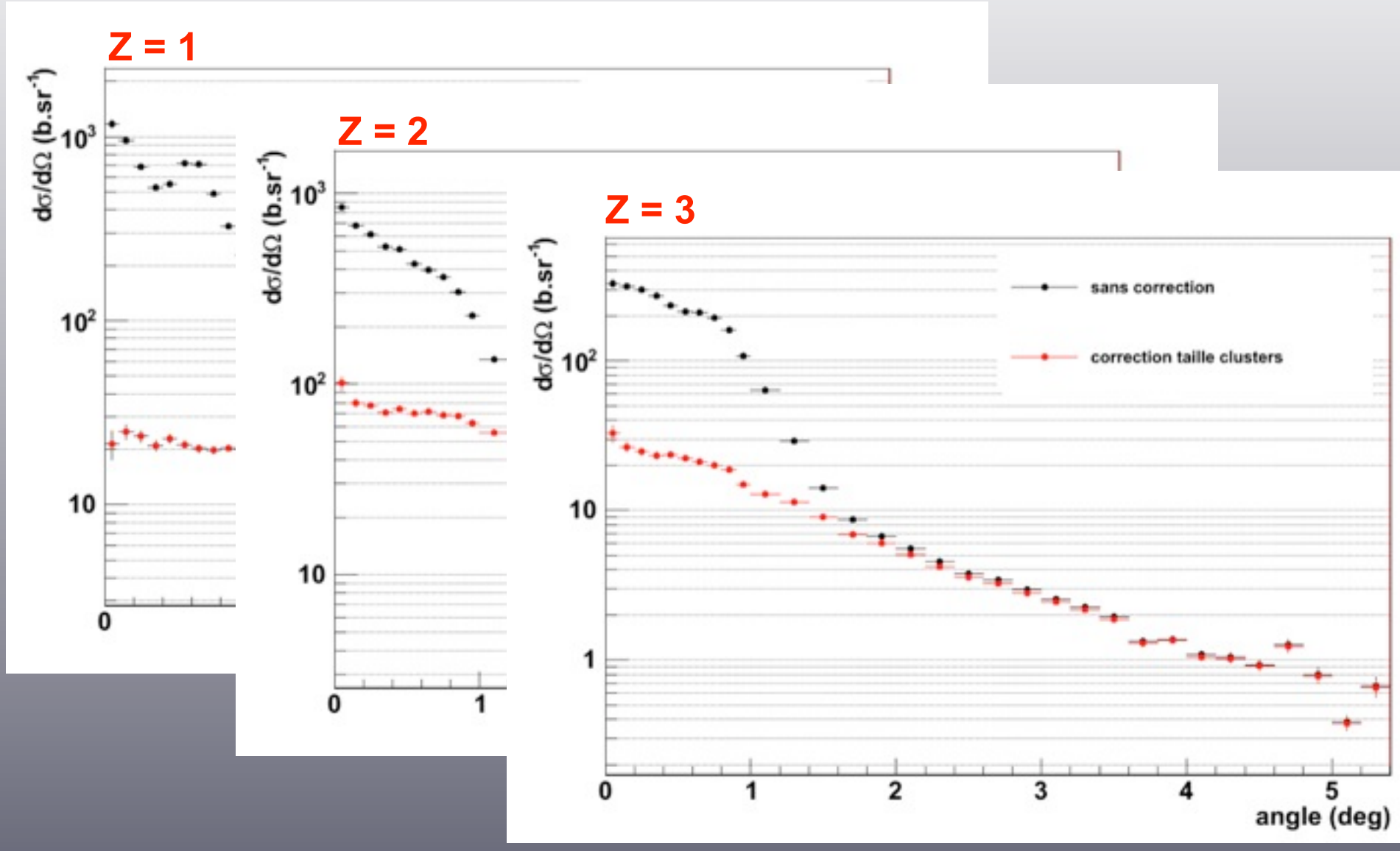
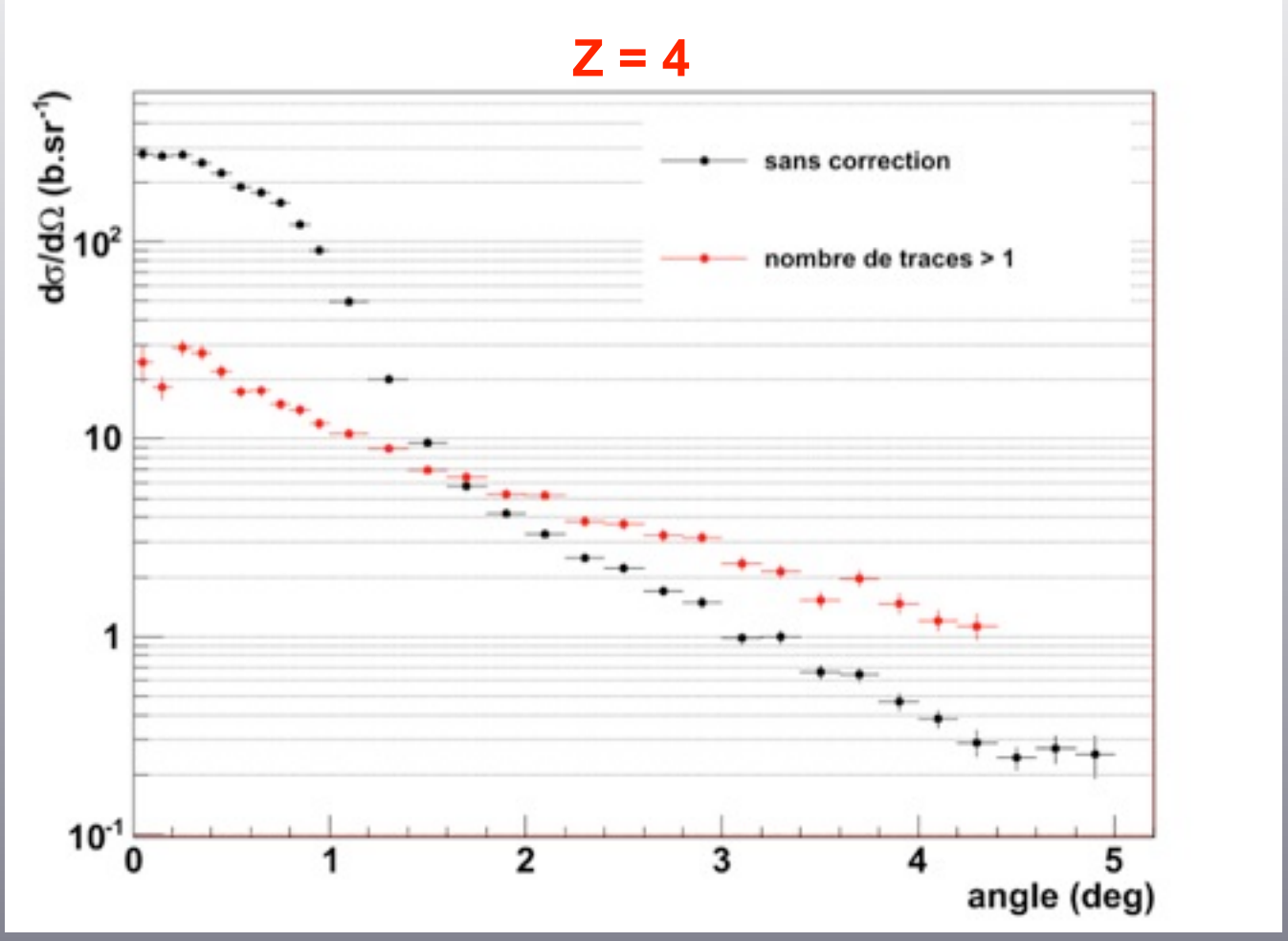


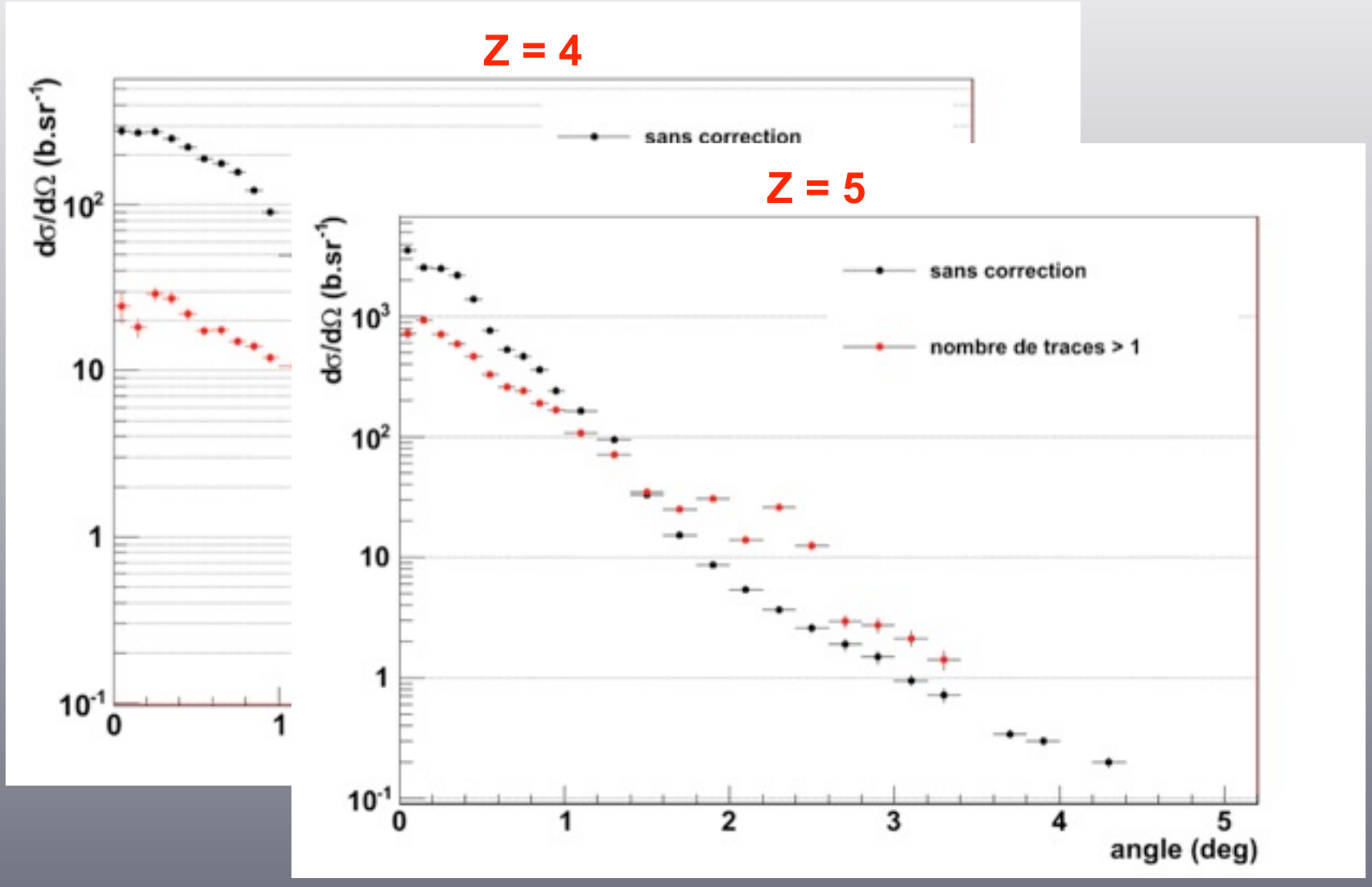
Angular Distribution (ii)

- Distribution for Z = 4, 5 w/o and with cut (nTracks)



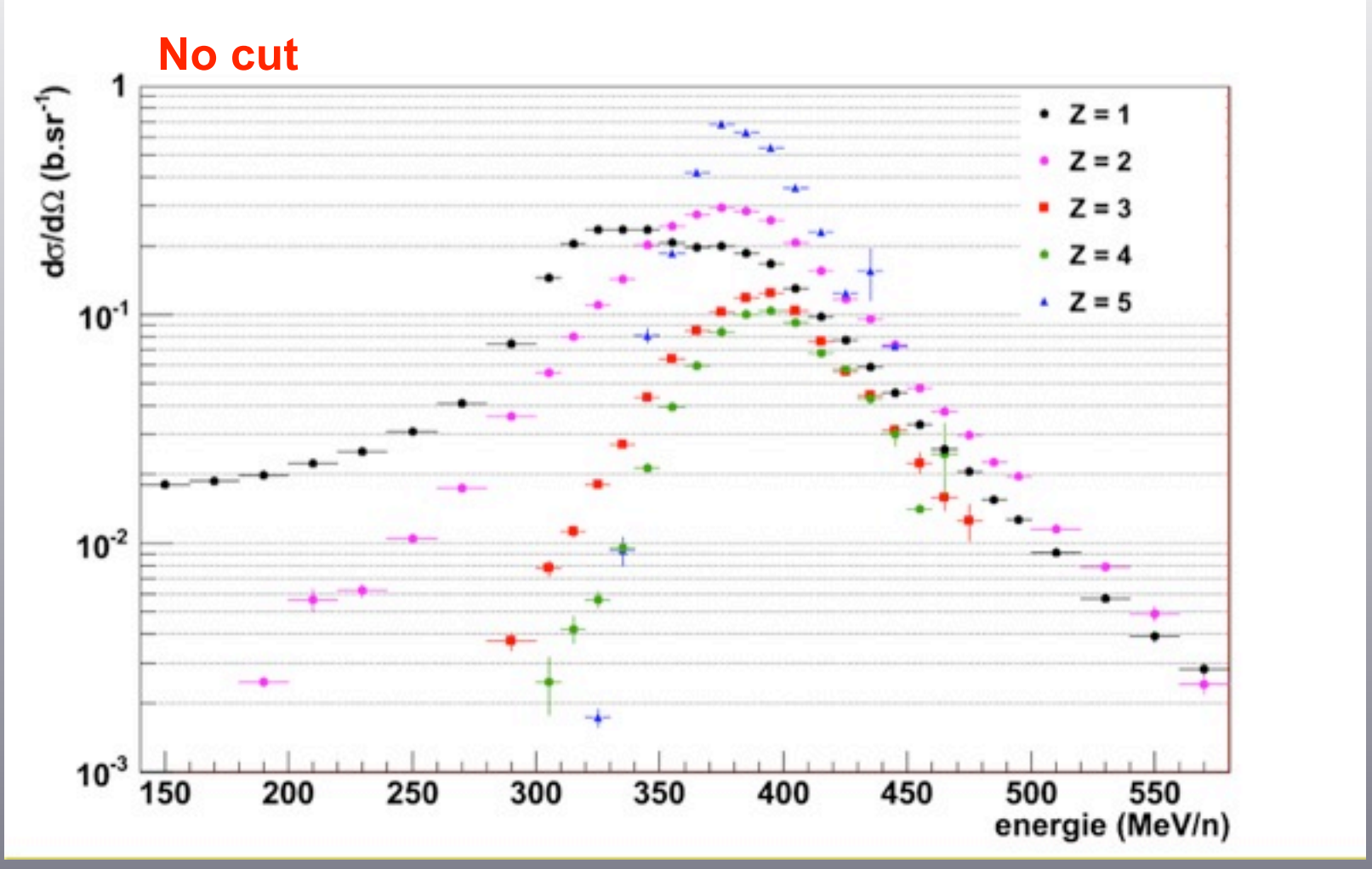
Angular Distribution (ii)

- Distribution for Z = 4, 5 w/o and with cut (nTracks)



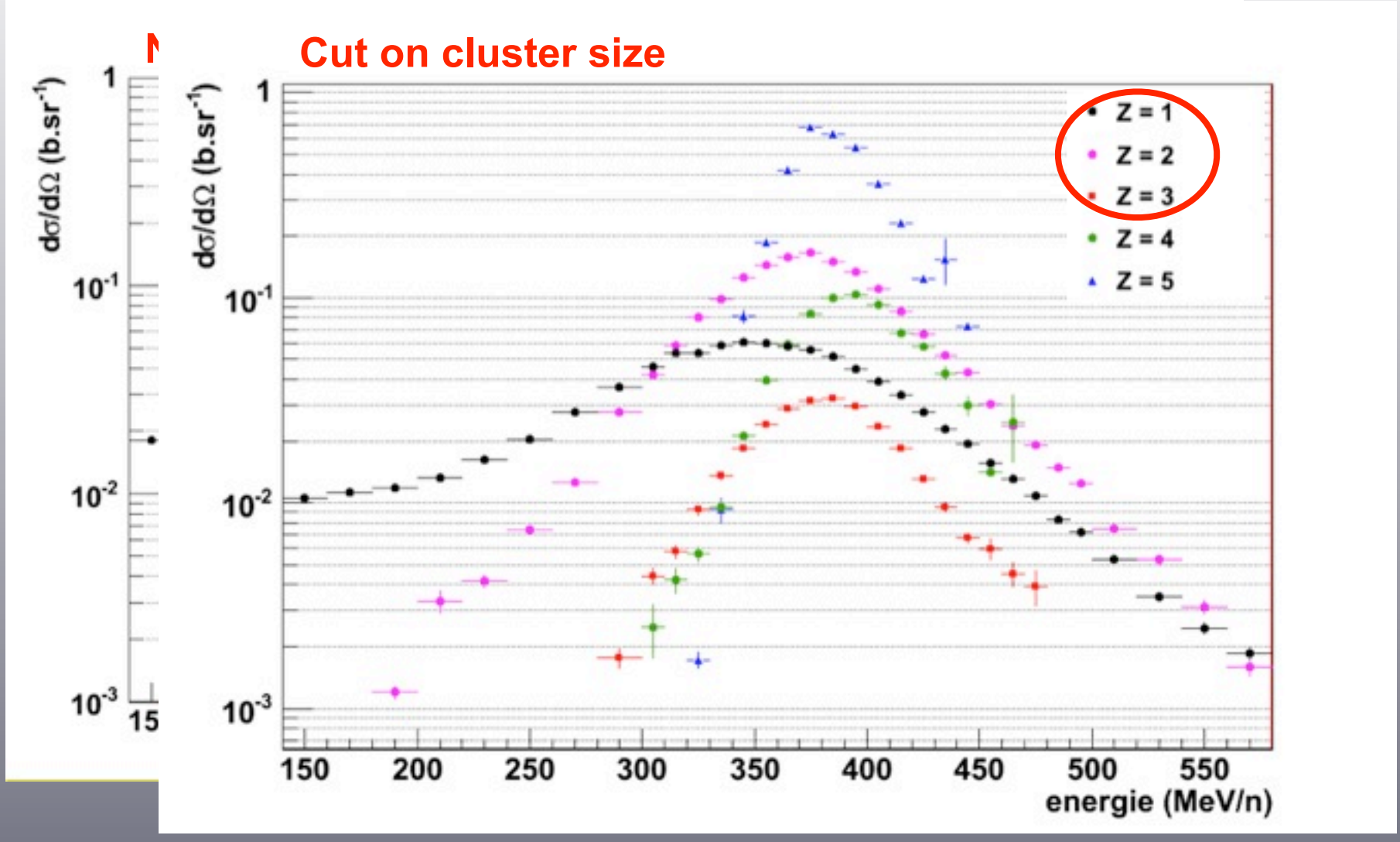
Energy Distribution

- Distribution for all charges w/o and with cut (cluster size and nTracks)



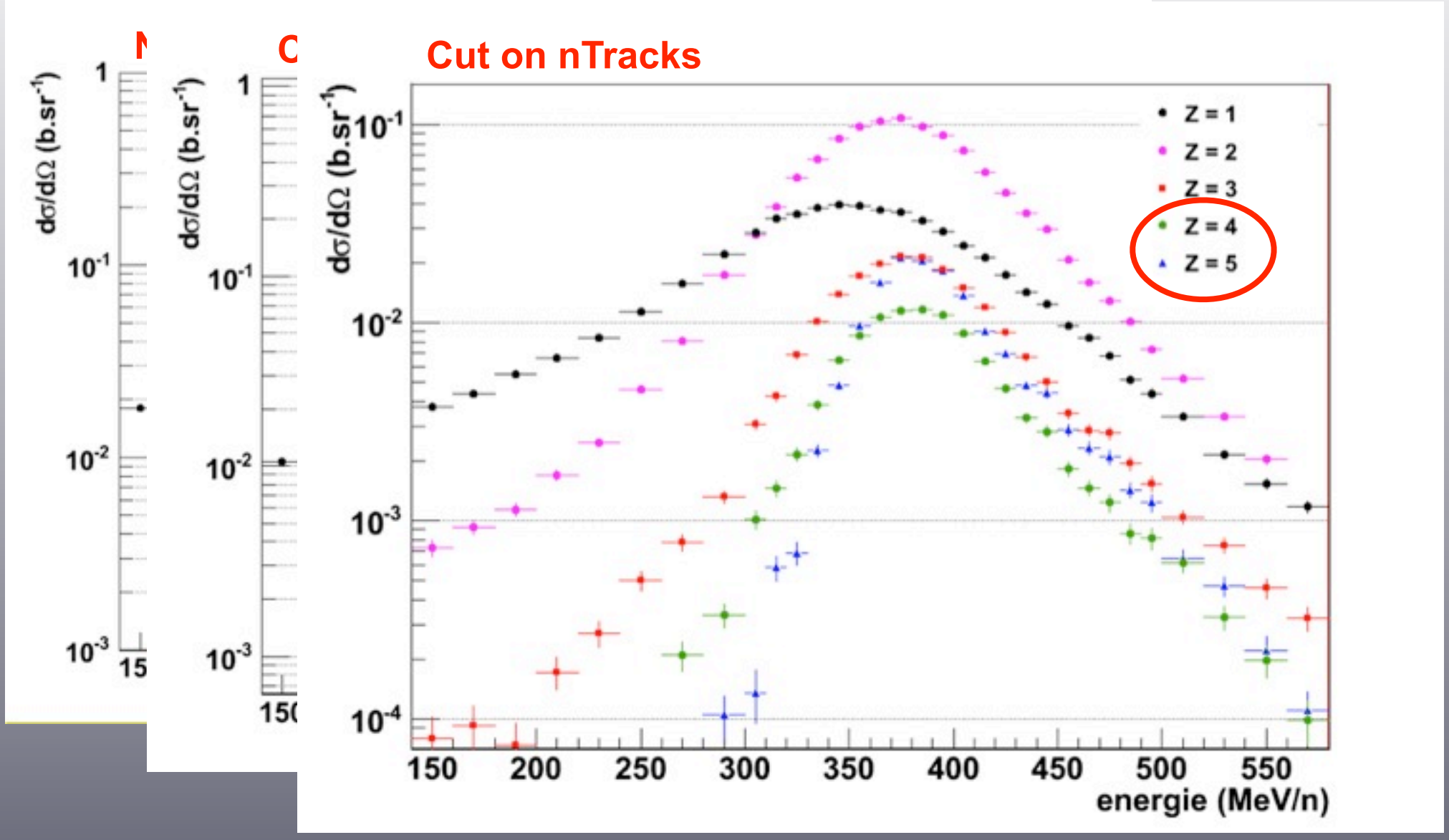
Energy Distribution

- Distribution for all charges w/o and with cut (cluster size and nTracks)



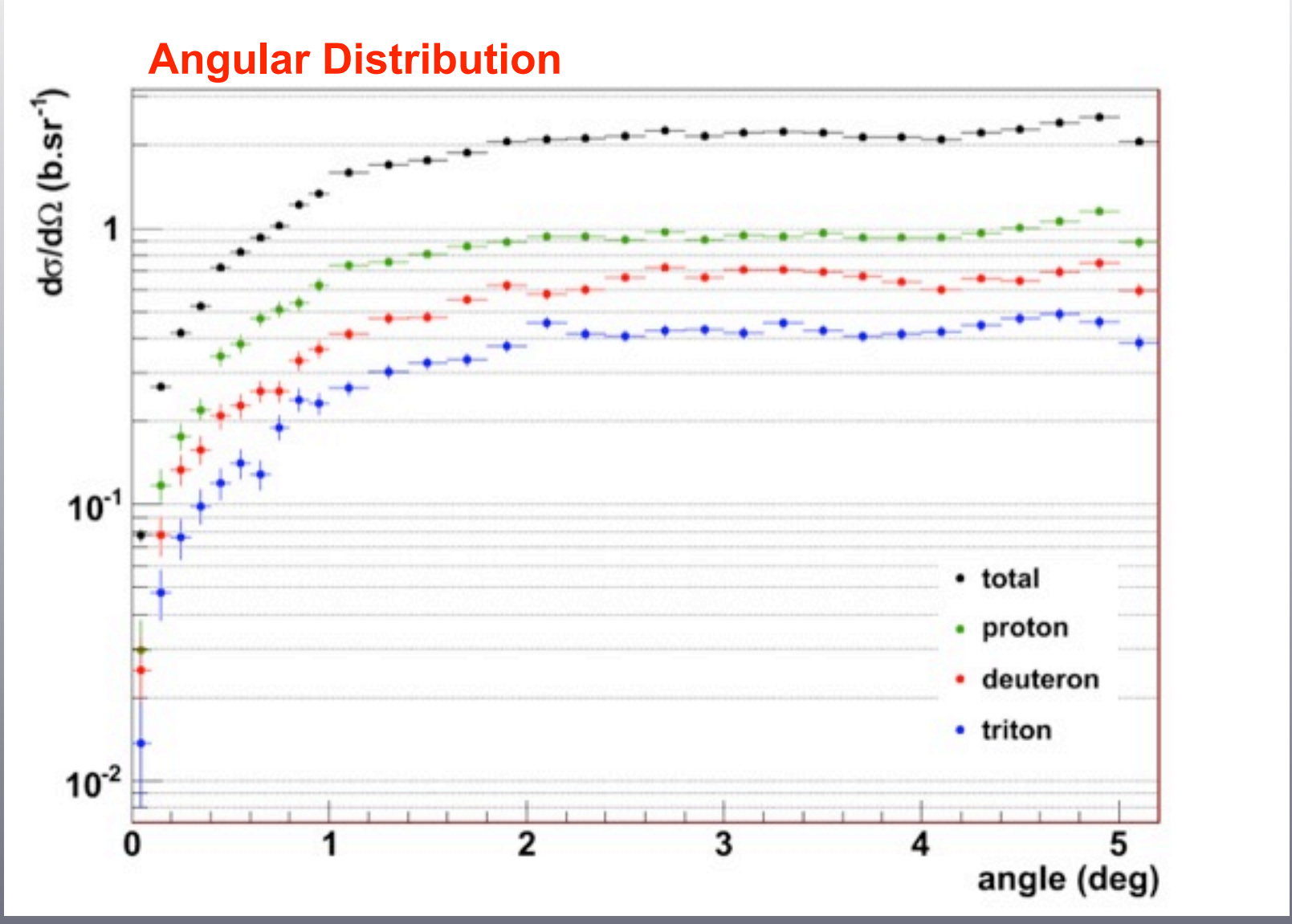
Energy Distribution

- Distribution for all charges w/o and with cut (cluster size and nTracks)



Angular & Energy Distribution Z =1

- Distribution for proton, deuterium & tritium



Angular & Energy Distribution Z =1

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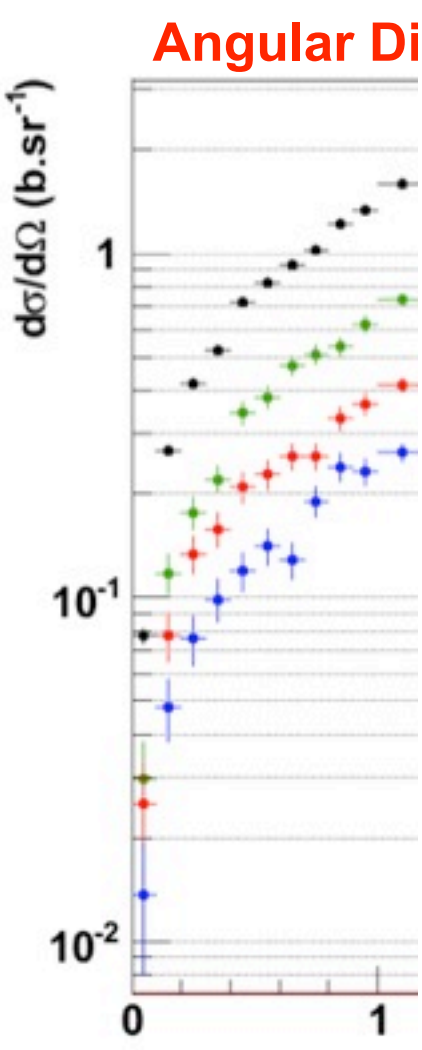

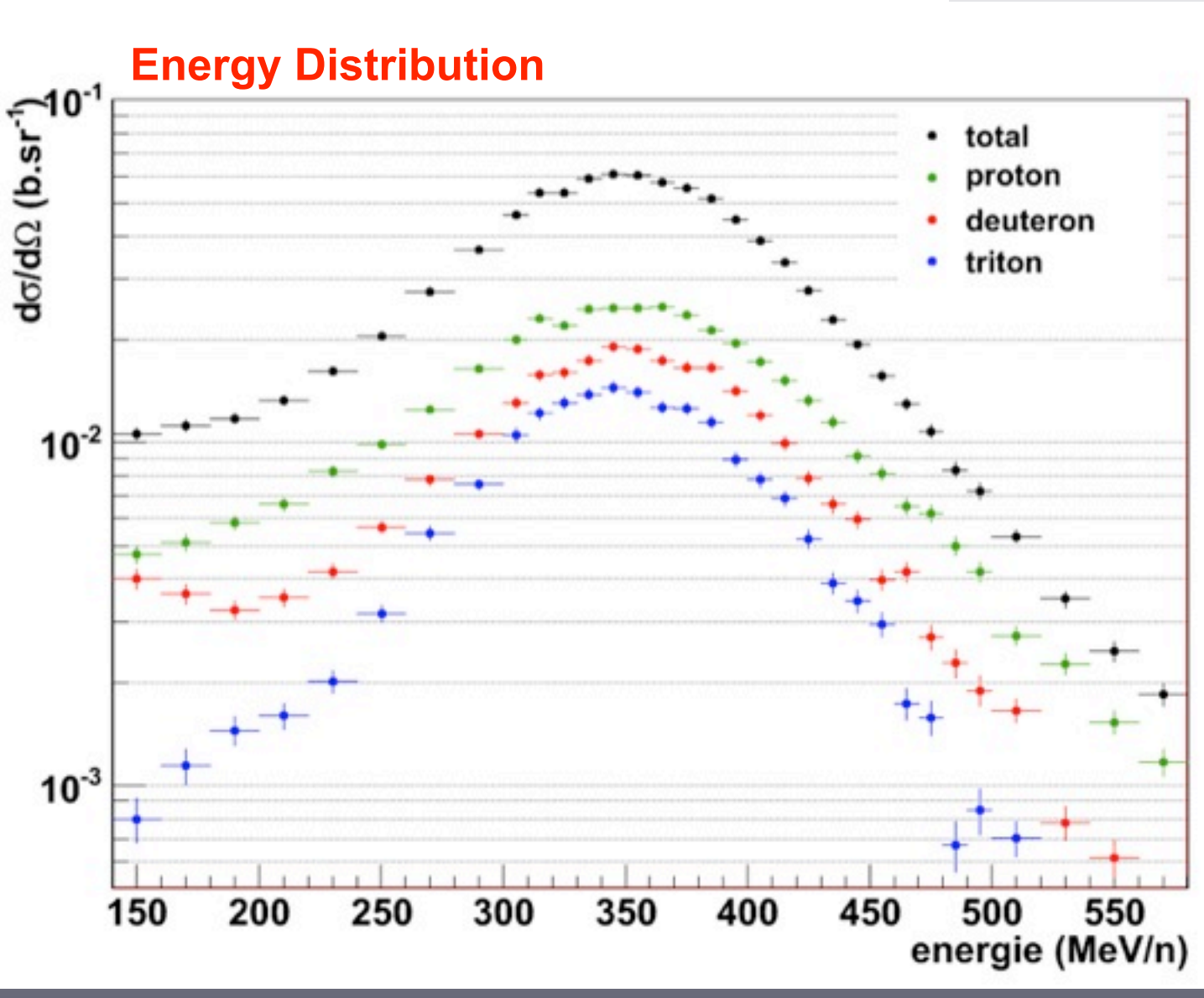

Conclusions

- First (attempt) for angular & energy distributions (with cuts)
- Evaluate correctly cuts on efficiency (response function and pileup)
- Get rid of charge pollution (especially carbon) !
- Estimation of systematic errors (long term) including dead maps