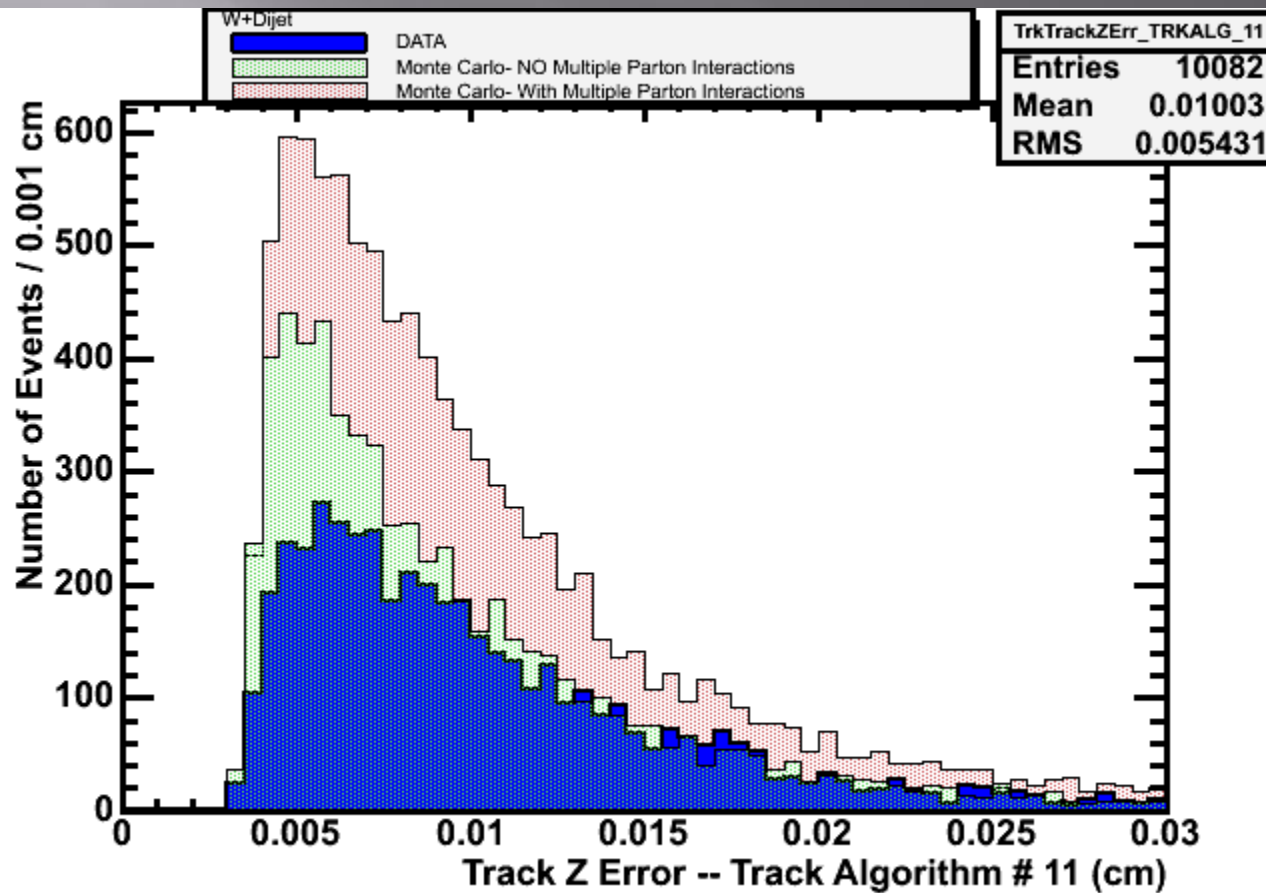


TRACK ALGORITHM # 11

Varsha Ramakrishnan

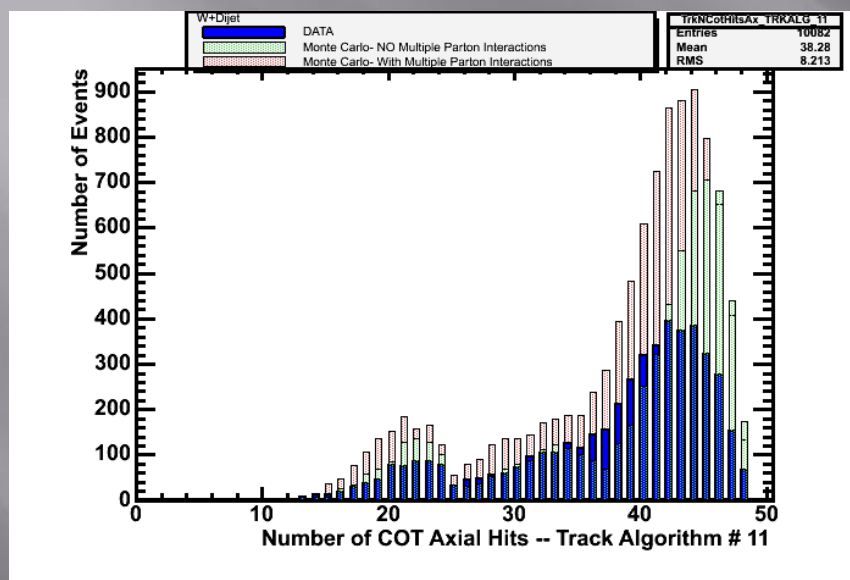
08/31/2009

Track Z Error

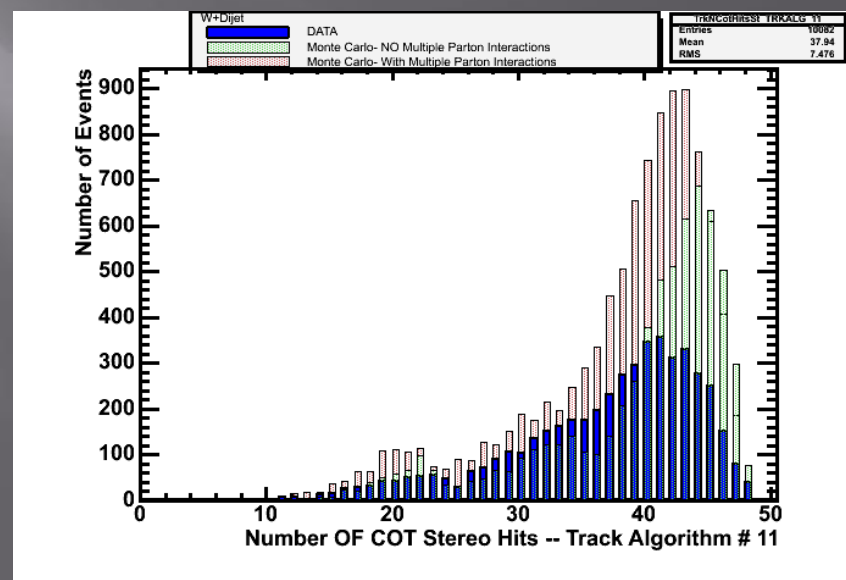


COT Hit Properties

AXIAL HITS



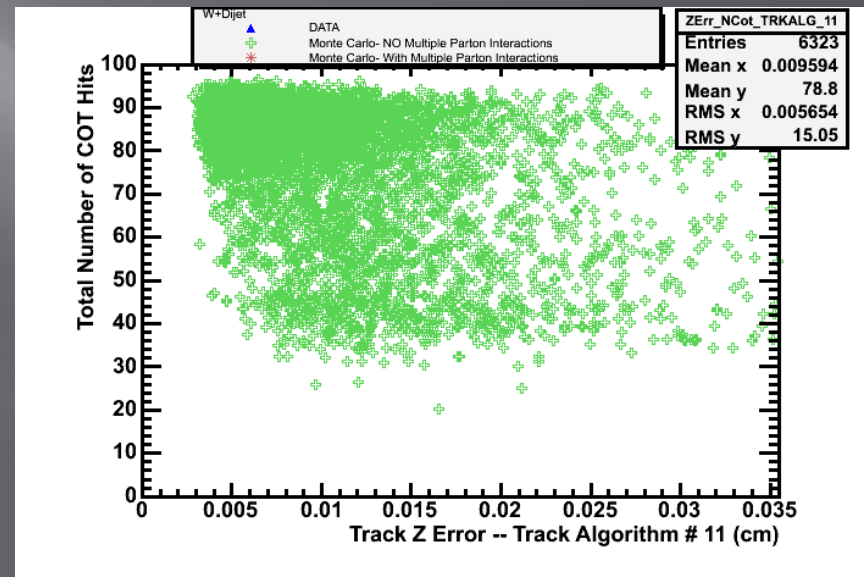
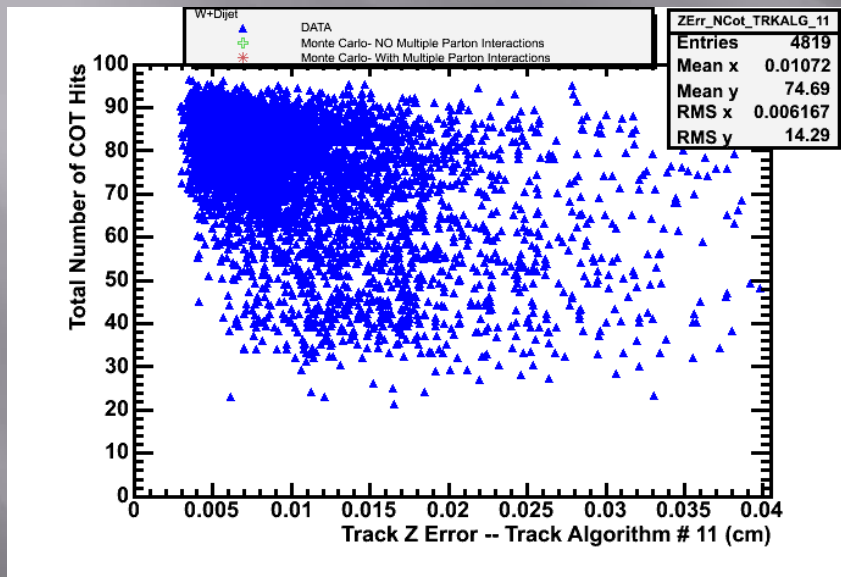
STEREO HITS



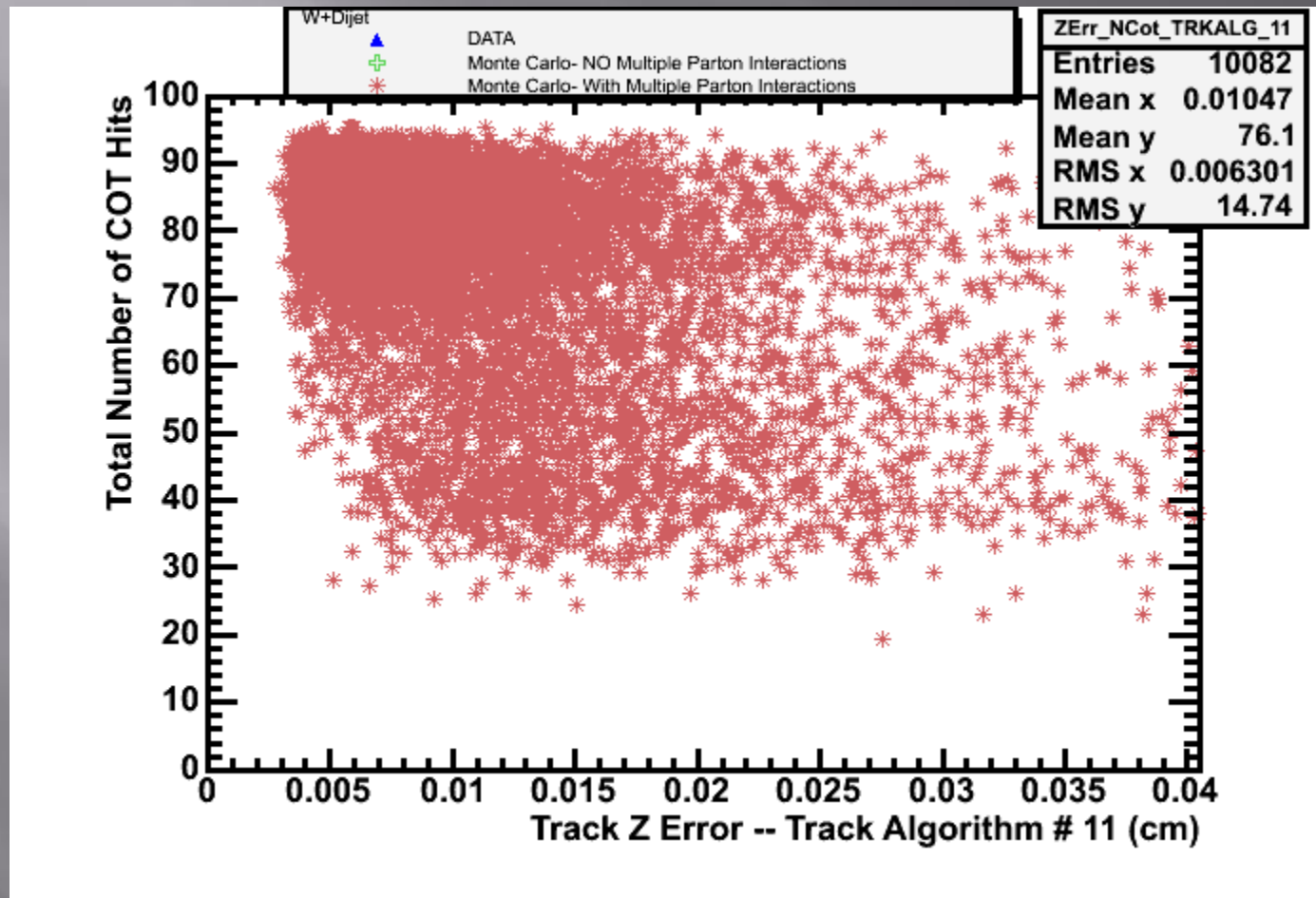
Total Number of COT Hits

DATA – TOTAL NUMBER
OF COT HITS

NO MPI



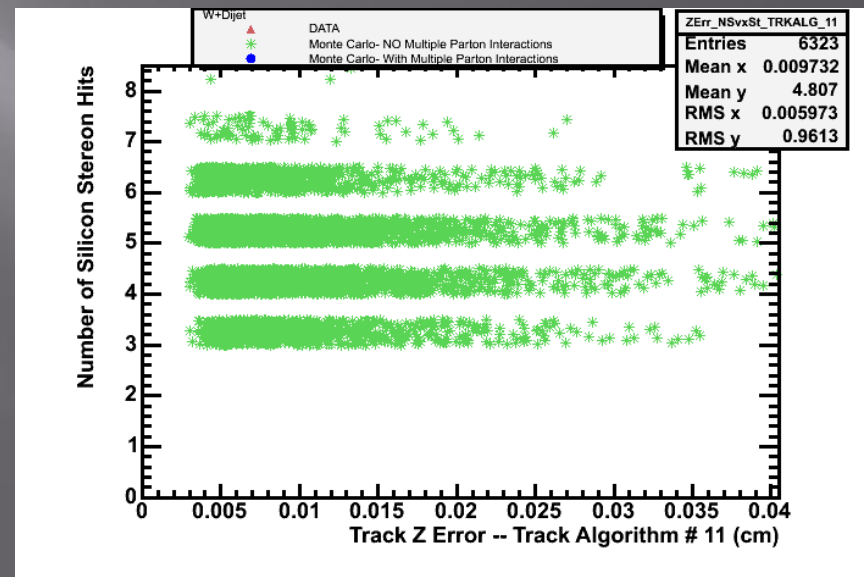
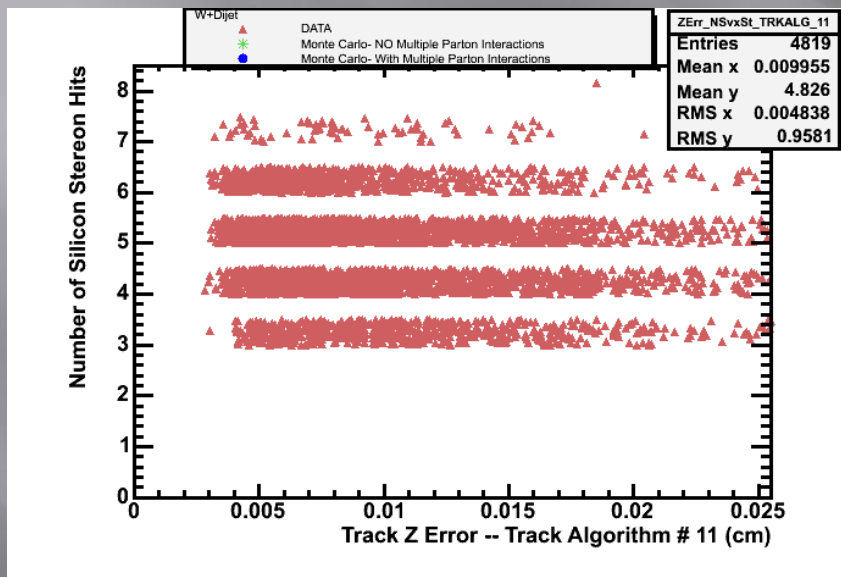
Total Number of COT Hits



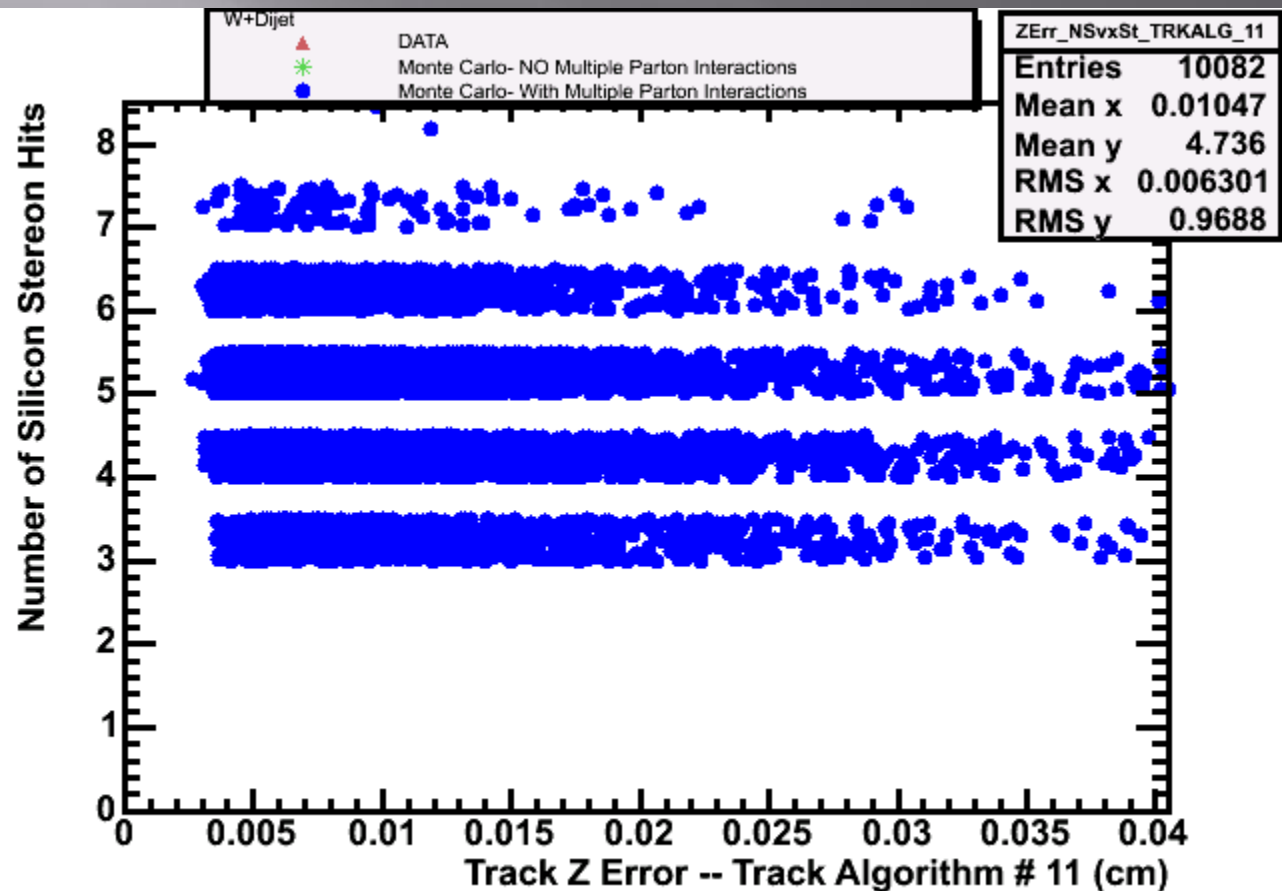
Silicon Stereo Hits Vs Z Error

DATA – NUMBER OF SVX
STEREO HITS

NO -MPI



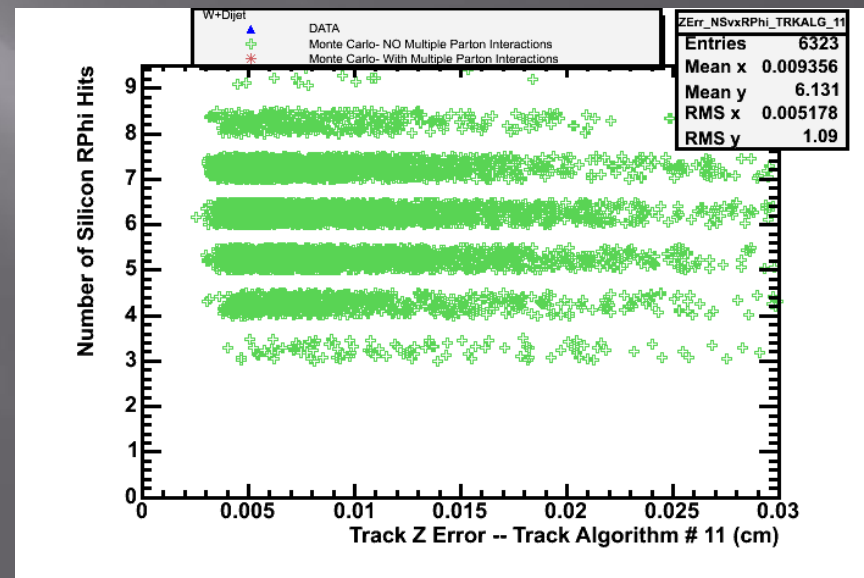
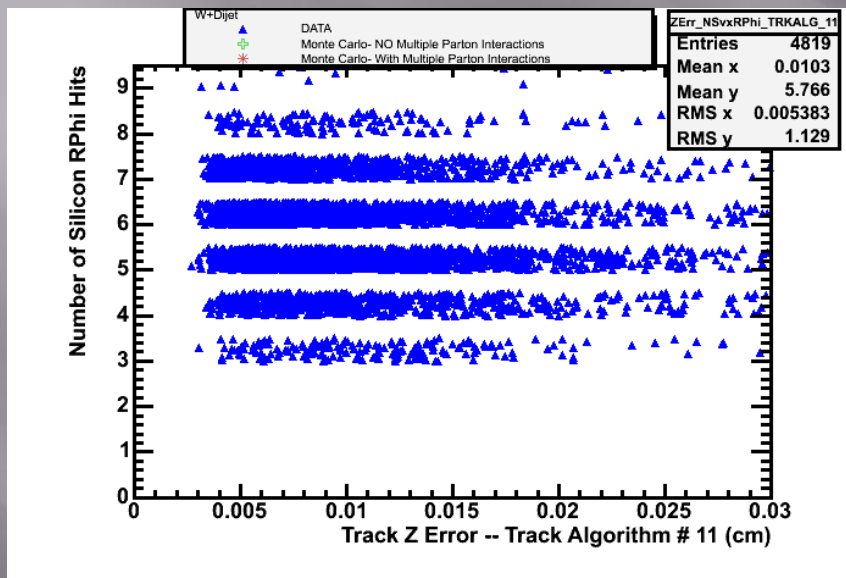
Silicon Stereo Hits Vs Z Error



Silicon Rphi Hits Vs Z Error

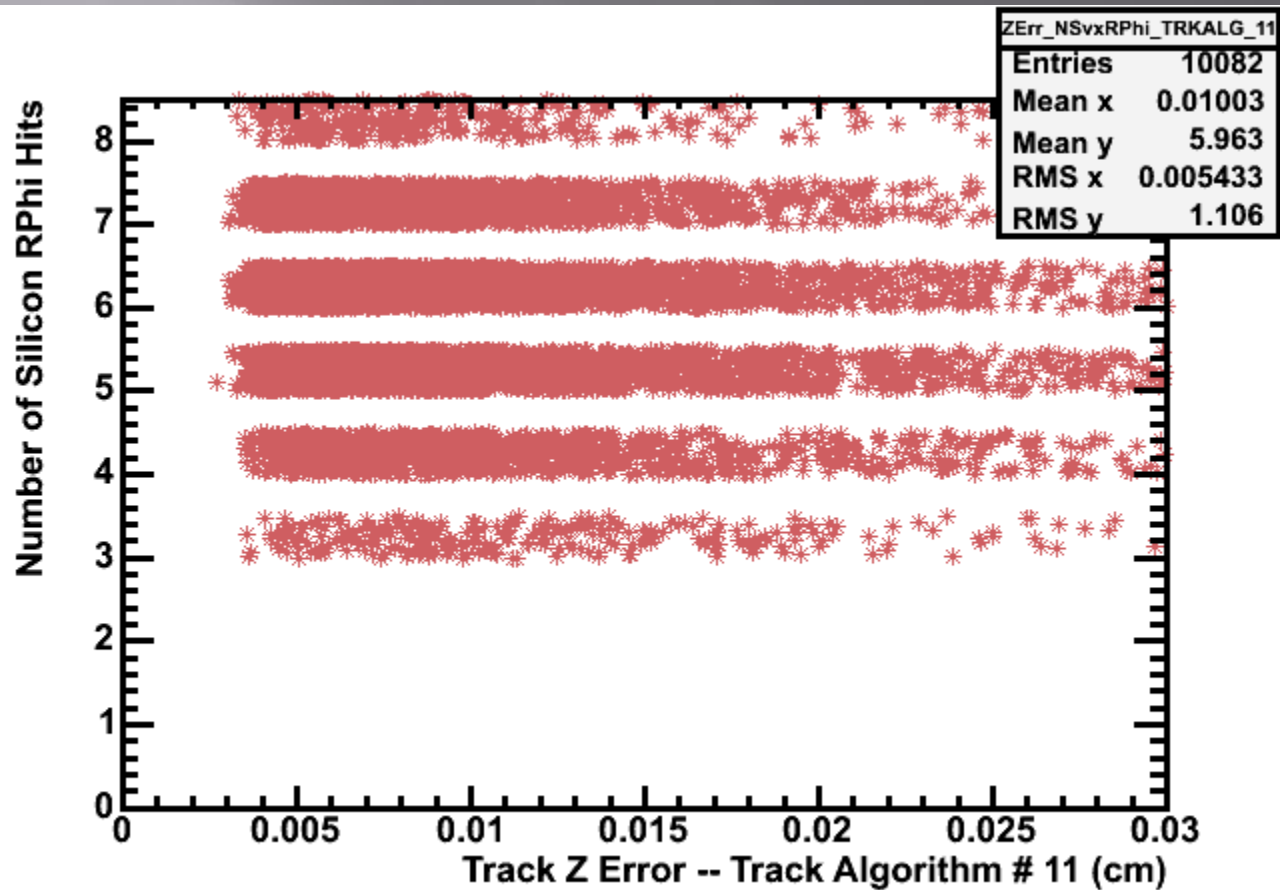
DATA -NUMBER OF SVS
RPHI HITS

NO -MPI



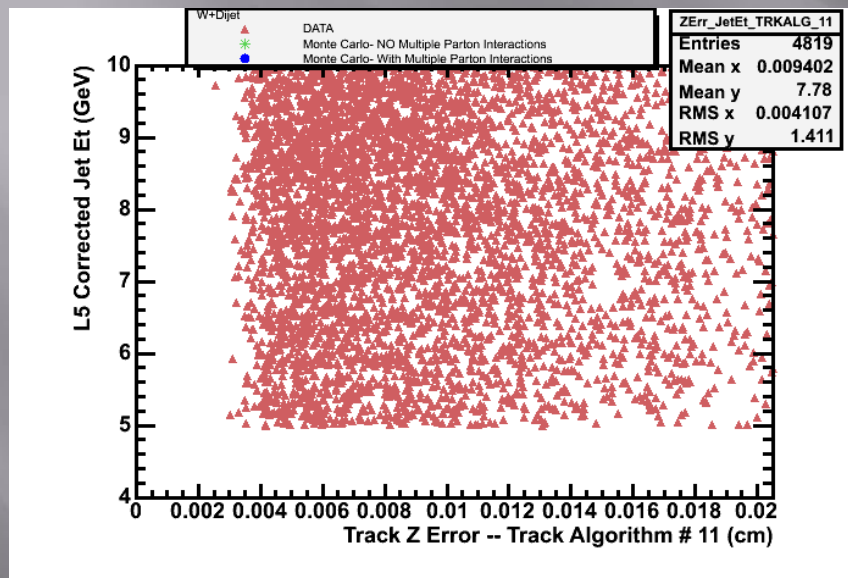
Silicon Rphi Hits Vs Z Error

With -MPI

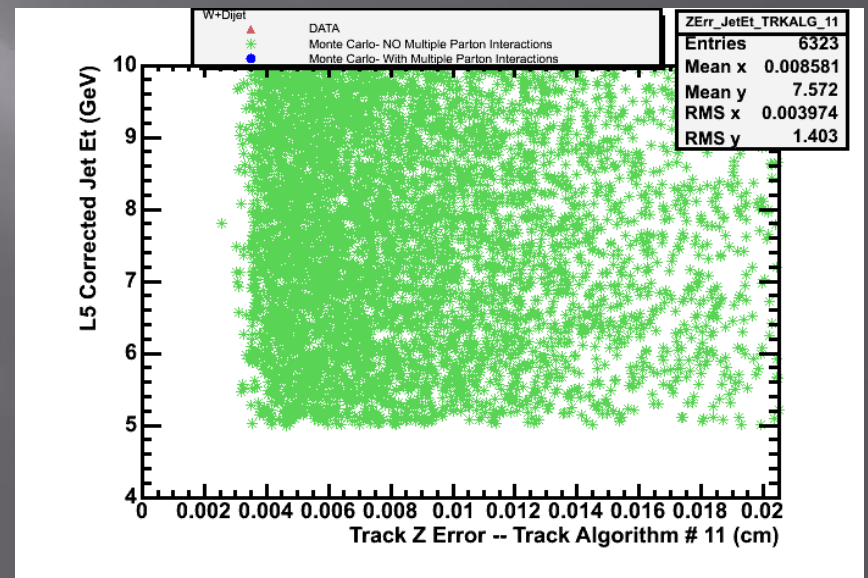


Jet Et Vs Z Error

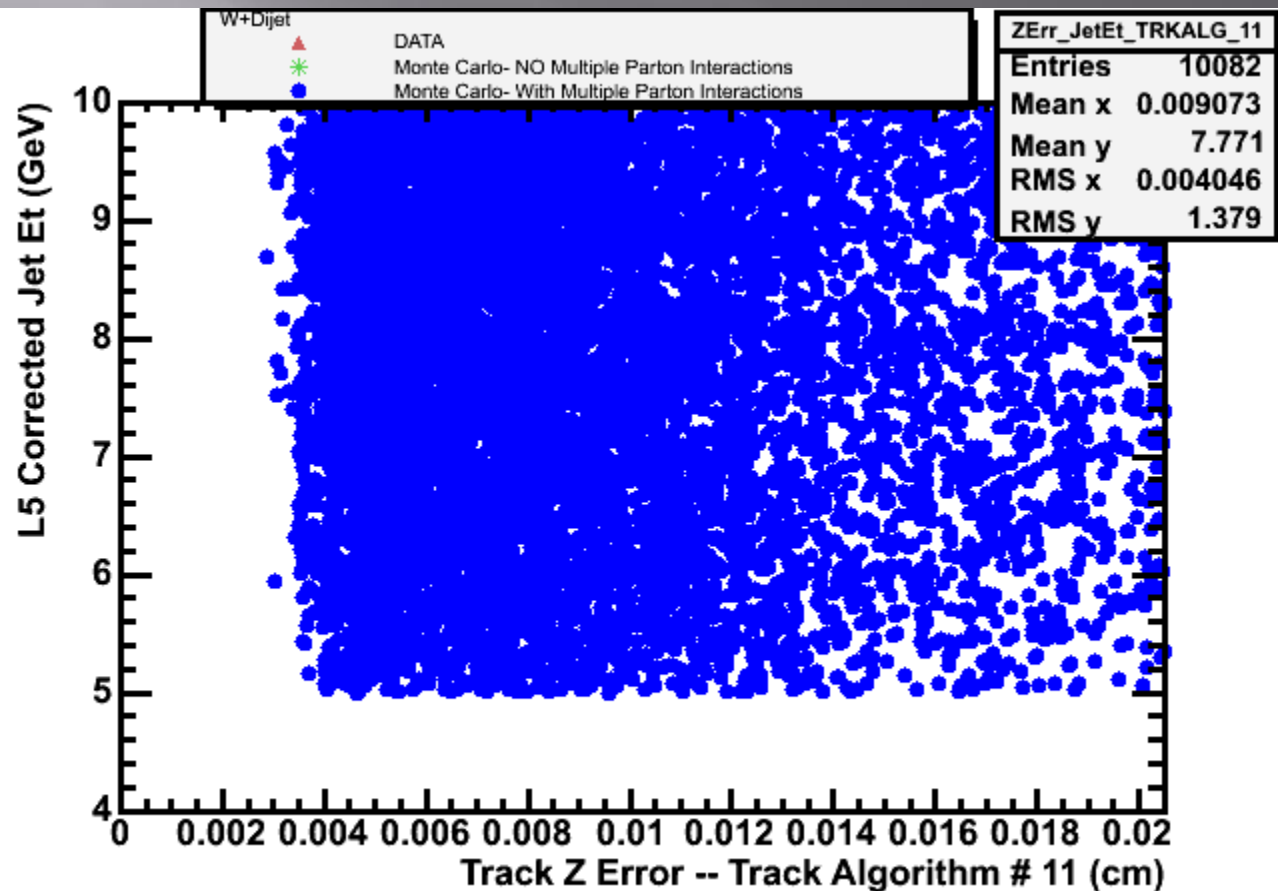
DATA



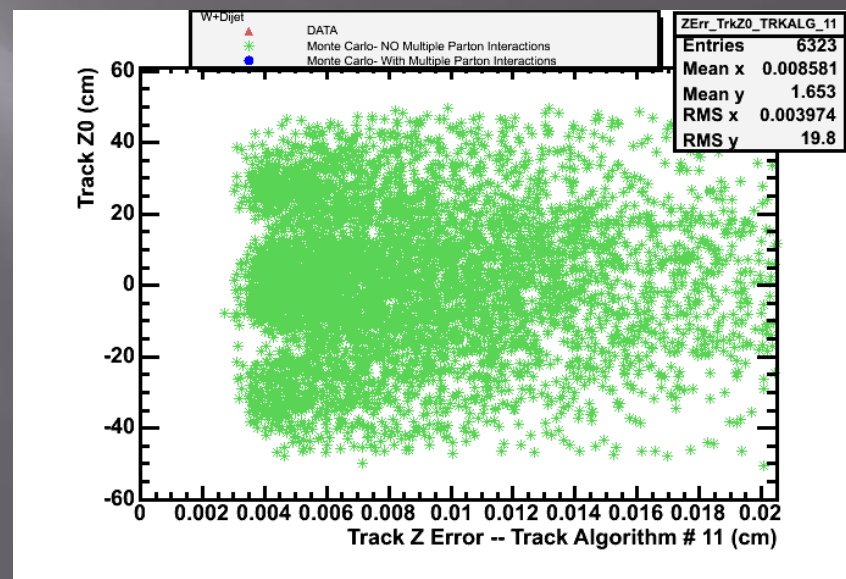
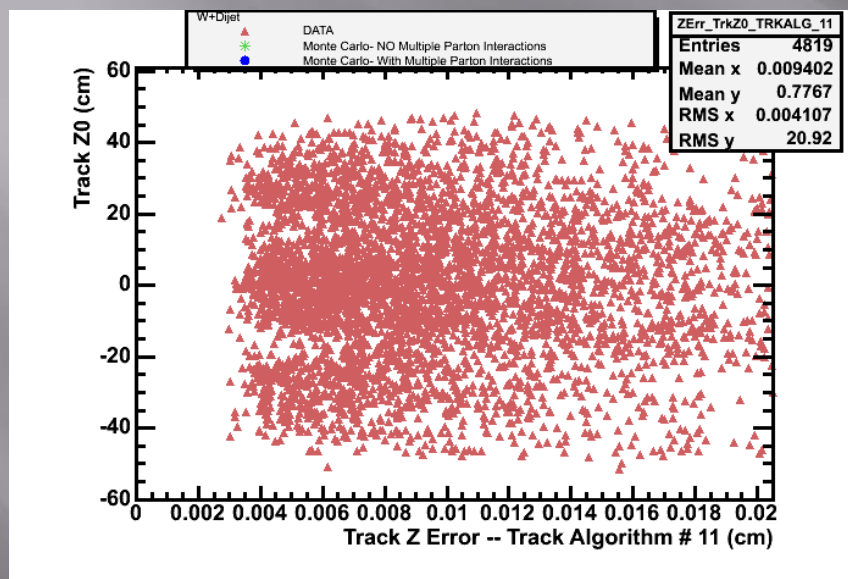
NO MPI



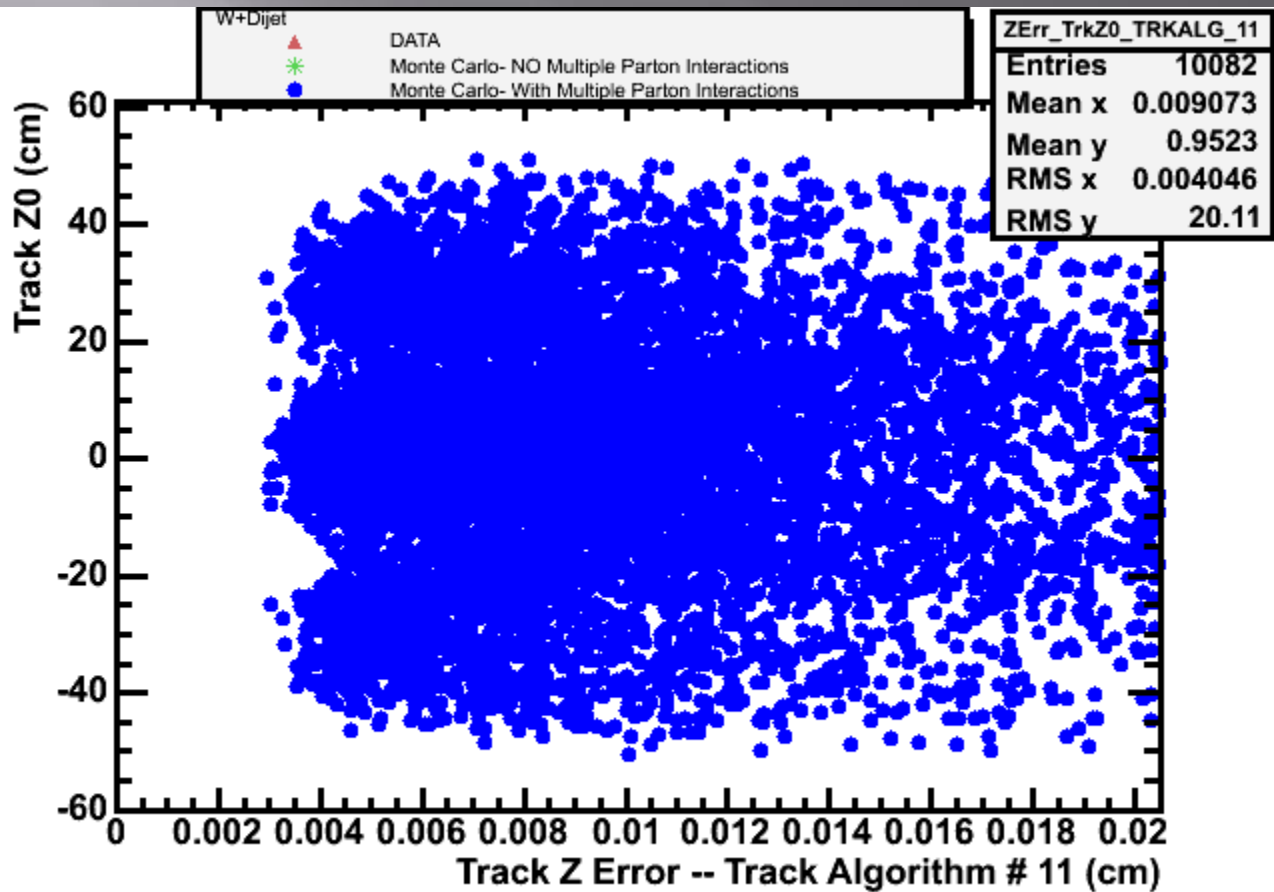
Jet Et Vs Z Error



Track Z0 Vs Z Error

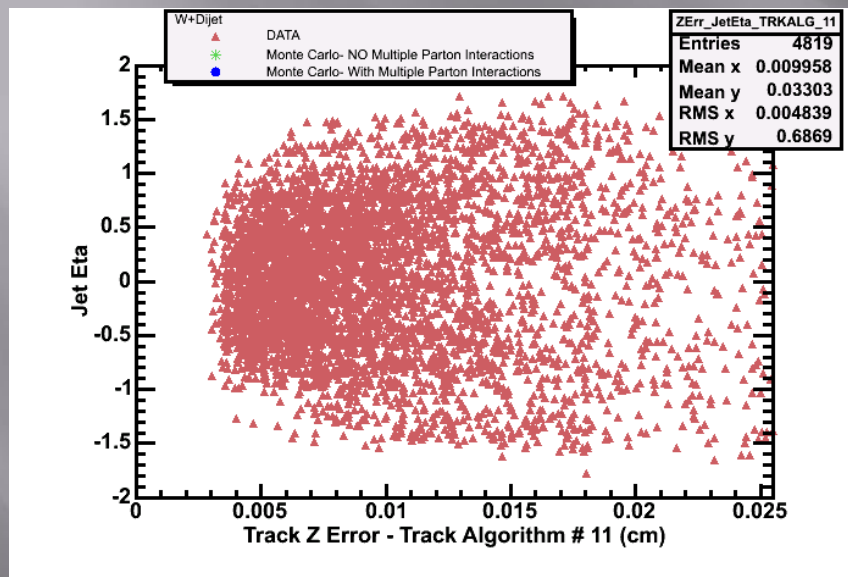


Track Z0 Vs Z Error

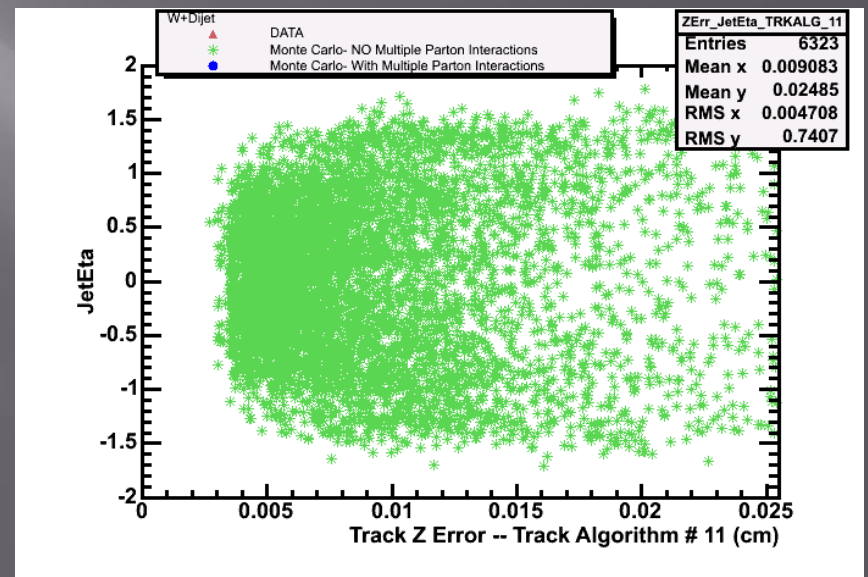


Jet Eta Vs Z Error

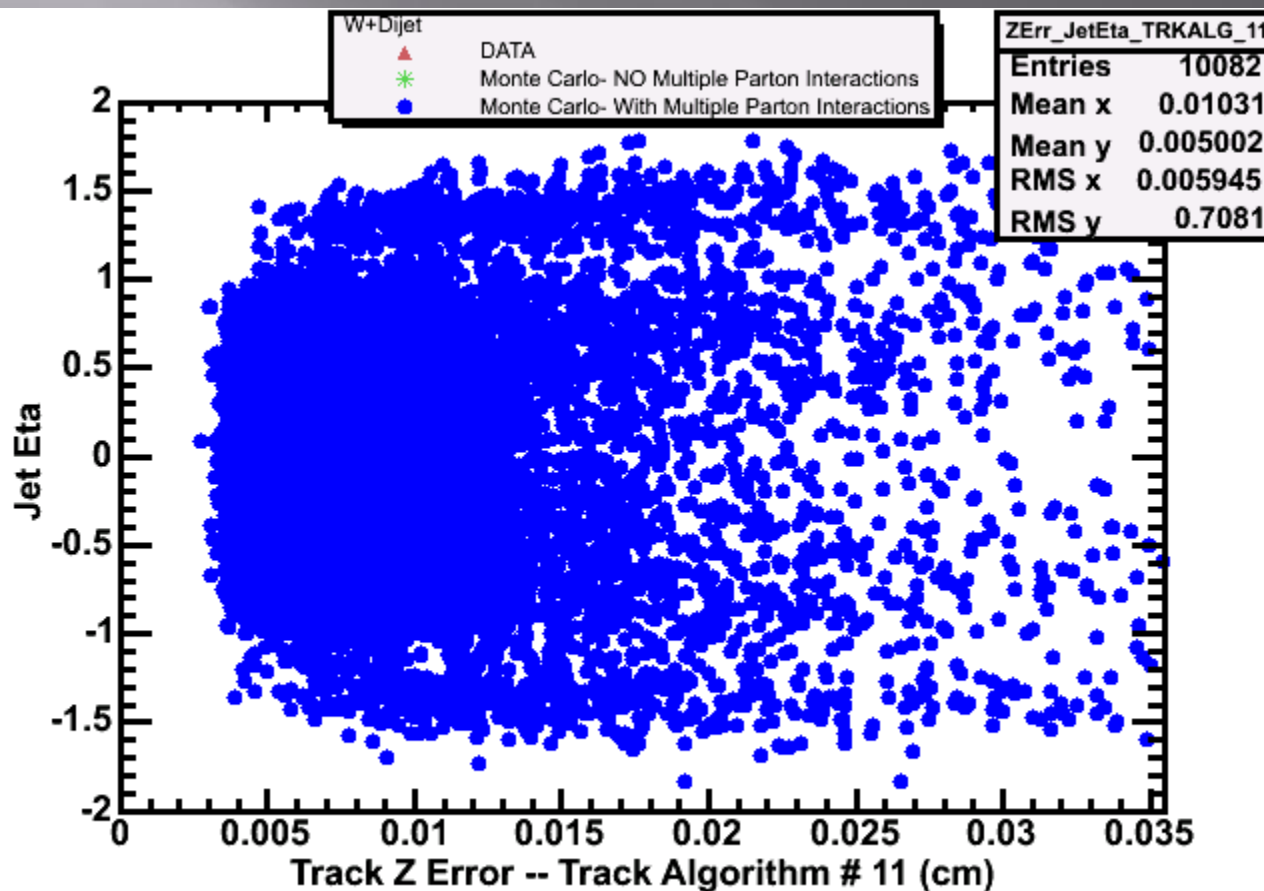
DATA



NO MPI

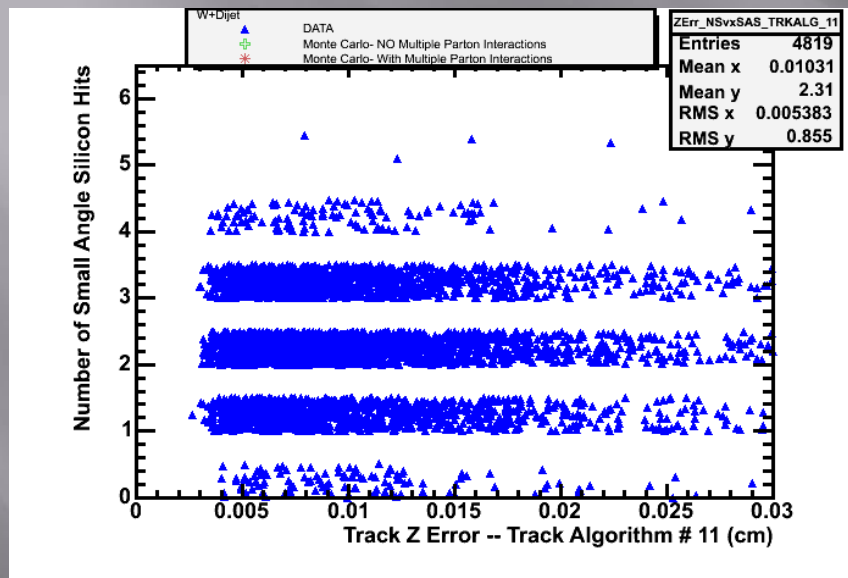


Jet Eta Vs Z Error

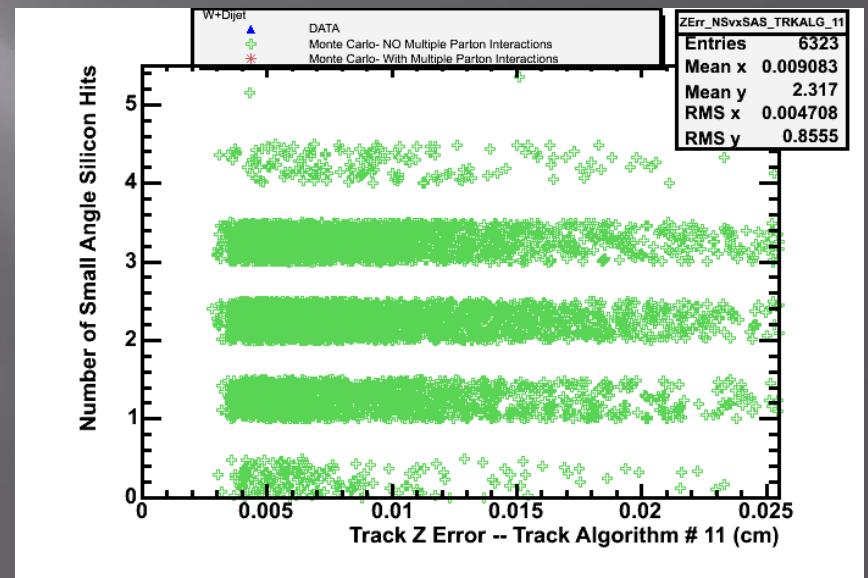


Number of SAS Hits Vs Z Error

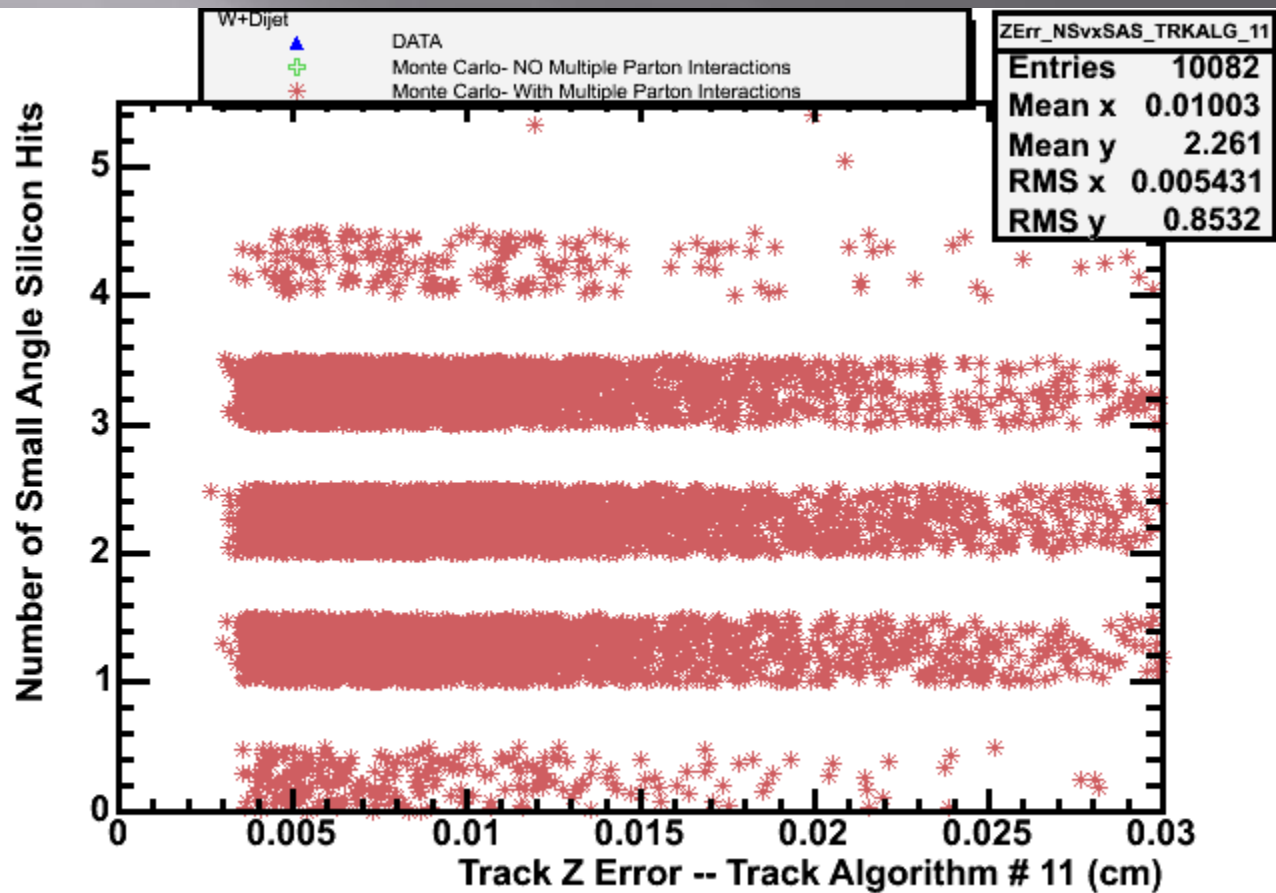
DATA



NO MPI



Number of SAS Hits Vs Z Error



Conclusions

- ▣ Not confined to the Track Eta or Jet Eta wrt Central Region => Lesser resolution
 - ▣ Lot of Silicon Stereo Hits accounts for the Great Z Resolution
- good choice for Calculating the Jet Z Vertex