RESIDUALS

Abhipsa Acharya
Jan Kochanowski University, Kielce, Poland
Date: 23.01.2020
Steps we have taken:

1. Run used for Ar_Sc_150_15.
2. Ar_Sc_150_15 file is reconstructed by shine software.
3. The shoe file is taken from legacy reconstruction chain.
   
   ```
   [/eos/experiment/na61/data/prod/Ar_Sc_150_15/029_17c_v1r8p1_pA_slc6_phys/
   shoe.root/run-020328x000.shoe.root]
   ```
4. We have one residual data script to analyze both files.
5. We made some changes in configuration file of residual modules (there were some cuts `<zMax> -590.0 </zMax>` for vertex-z positions that were cutting out the events including target).
6. For legacy reconstruction it went well but there are still something left for shine reconstruction to get the residuals for main tpcs.
Tracks from event browser:

From shine reconstruction file

From legacy reconstruction file
X Residuals
From Shine Reconstruction chain
X Residuals
From Legacy Reconstruction chain
Y Residuals
From Shine Reconstruction chain
Y Residuals

From Legacy Reconstruction chain
1D Histograms

Shine reconstruction chain
1D Histograms [ Legacy reconstruction chain ]
THANK YOU