

ACTS study

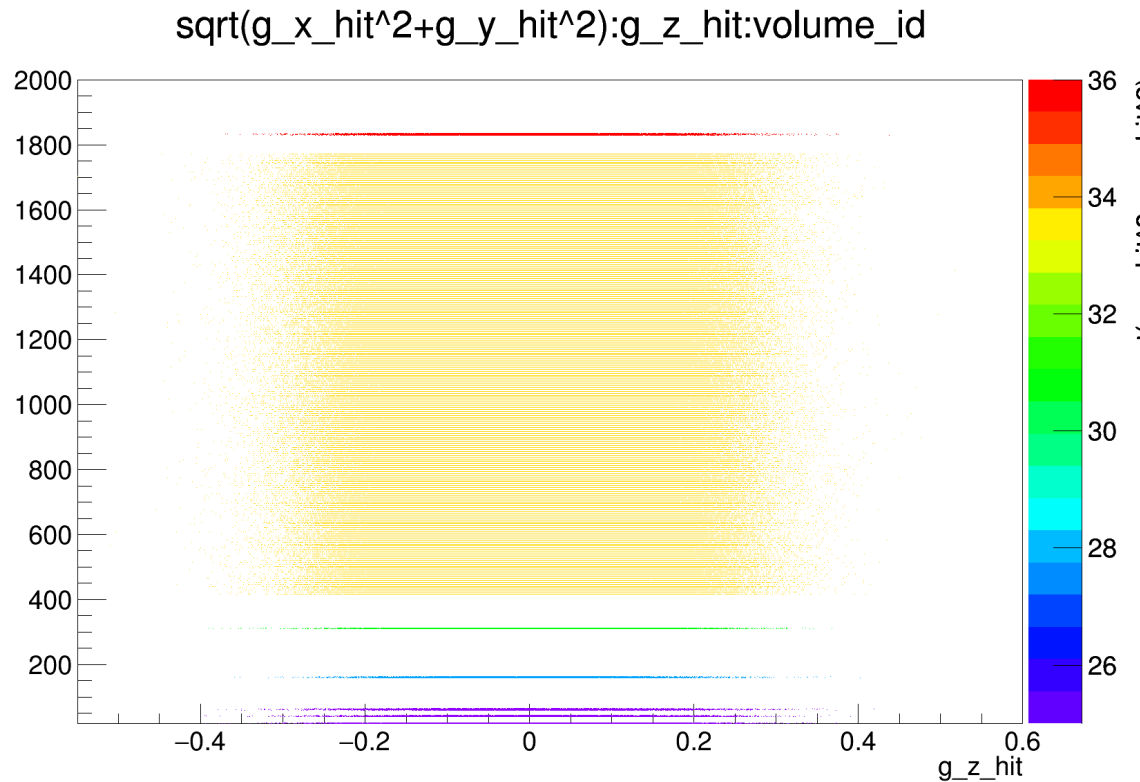
Shuiting Xin

June.29 2020

Branch :combine_bump

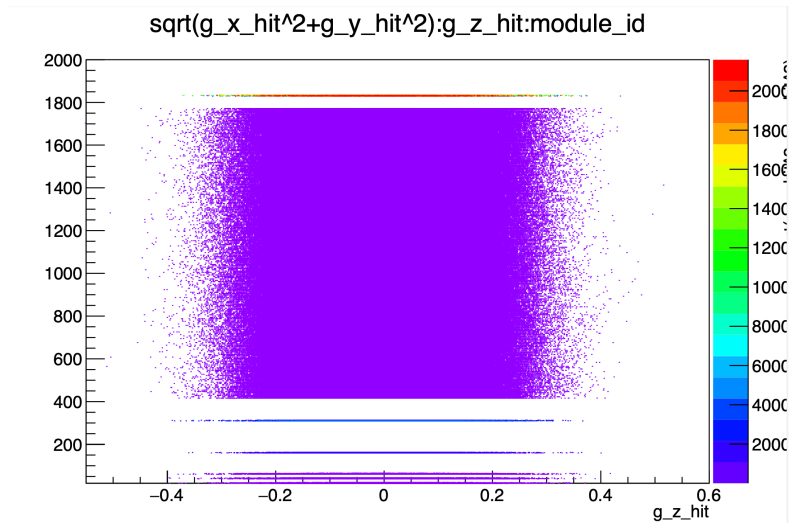
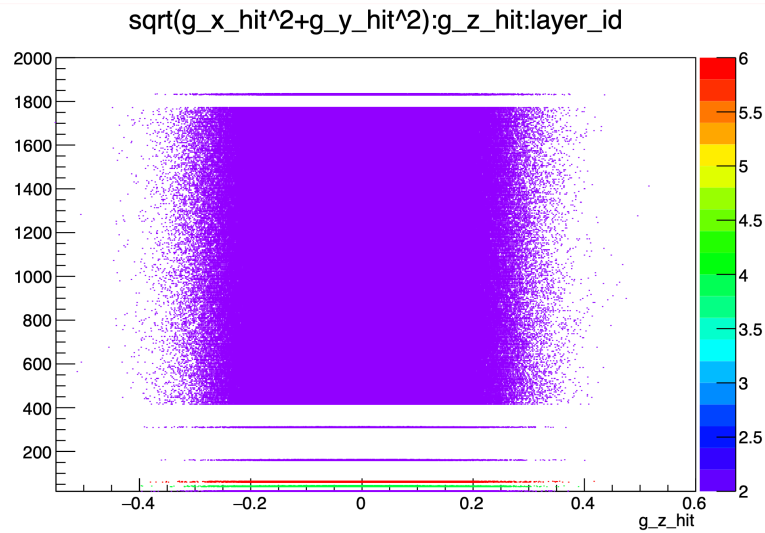
- Events
 - 1-100GeV moun track
 - $\eta = 0, -\pi < \phi < \pi$

volume_id/ layer_id/ module_id



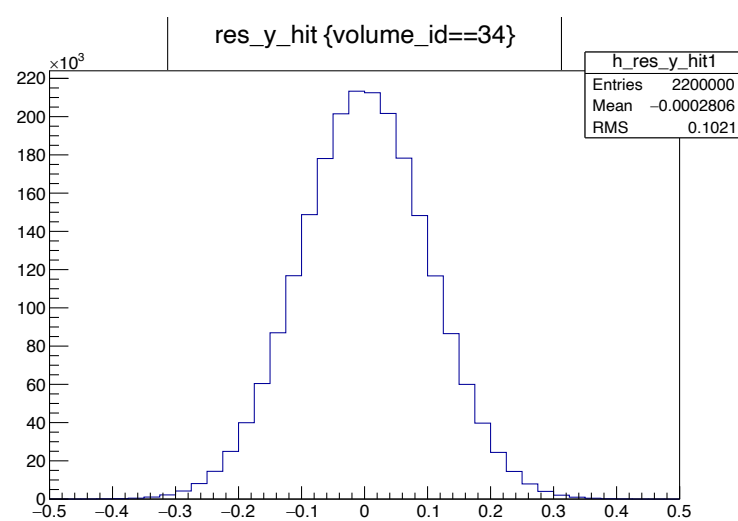
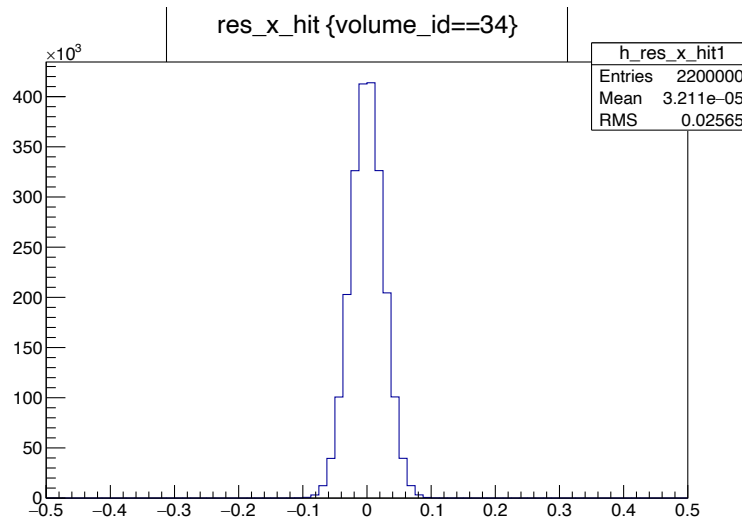
- volume_id:
 - TPC_Barrel:34 TPC_sGap:33
 - VTX :25

layer_id/ module_id



Hit information

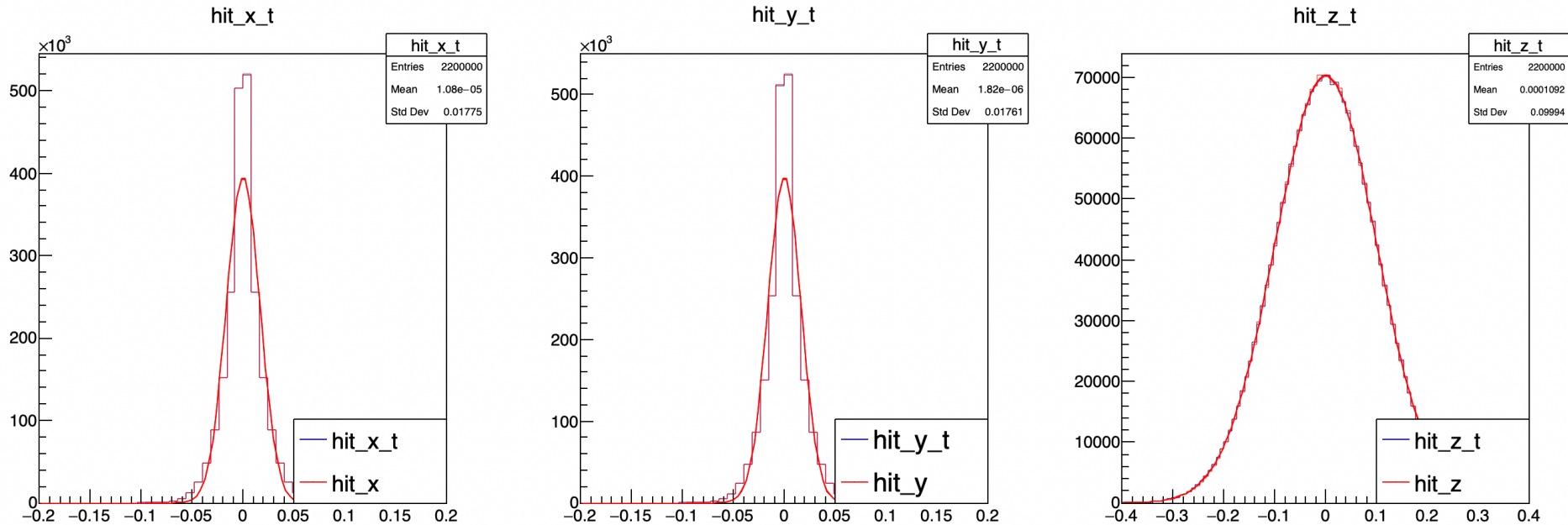
- TPC Residual



- Two local parameter local_x, local_y
- Definition in code :residual(Acts::ParDef::eLOC_*)

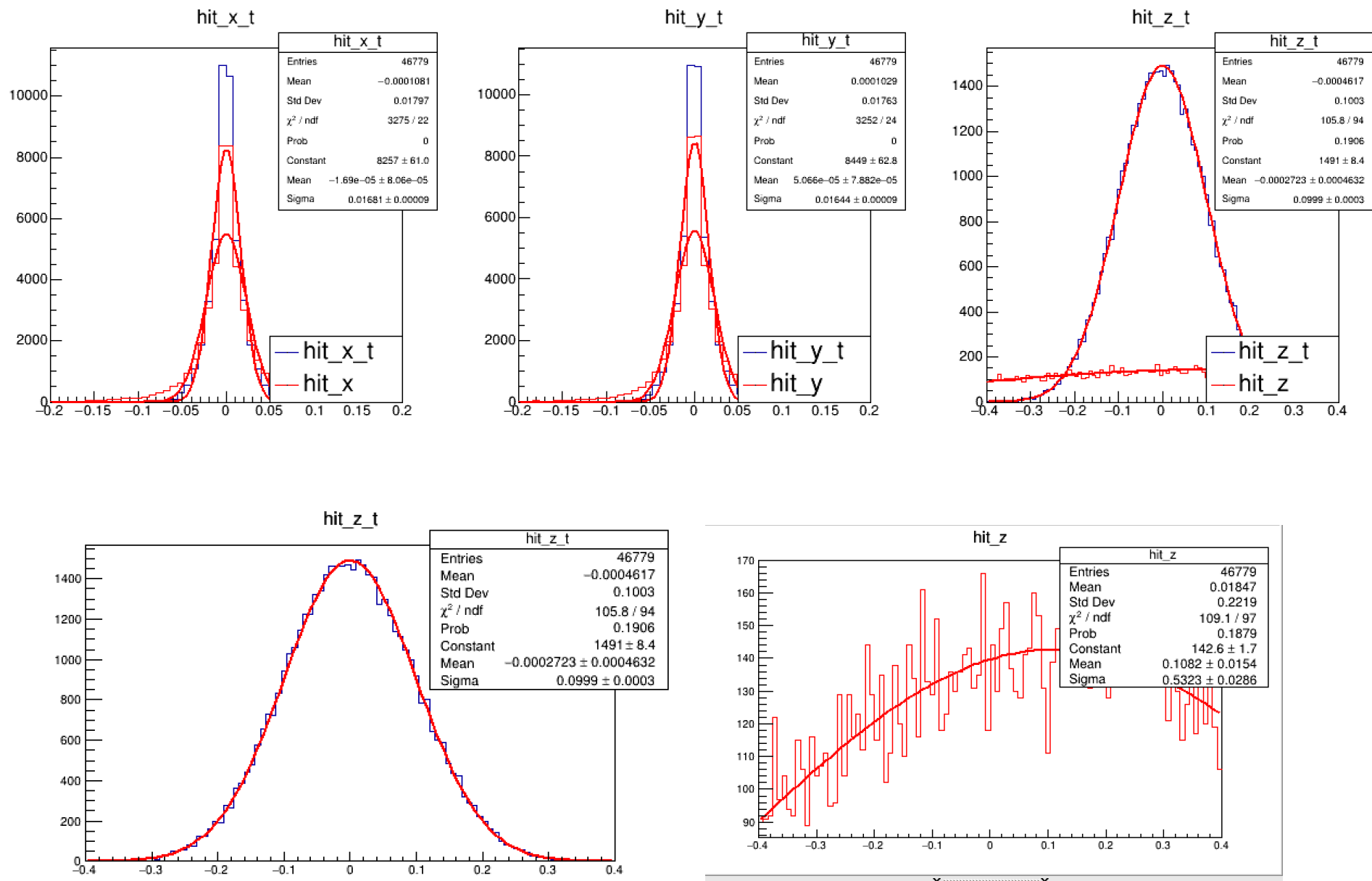
Hit information TPC

- Global x,y,z



- hit_x_t: obs-truth g_x hit-t_x
- hit_x:obs-fit g_x hit-t_smt

Hit information: VTX



Track information

Plot from performance_track_fitter.root

