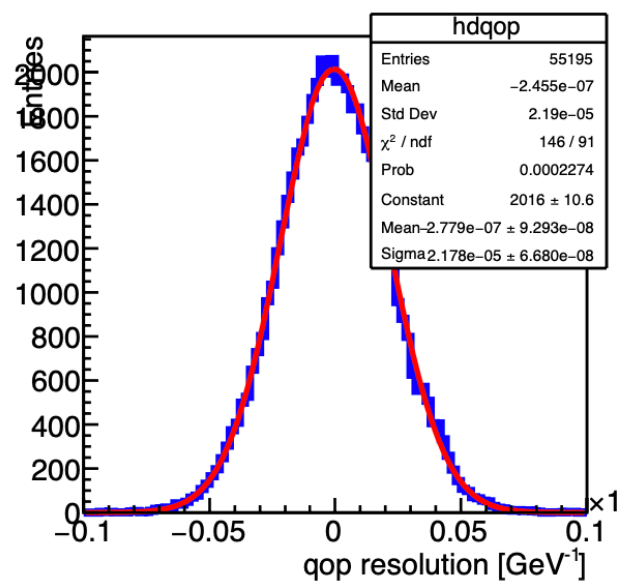
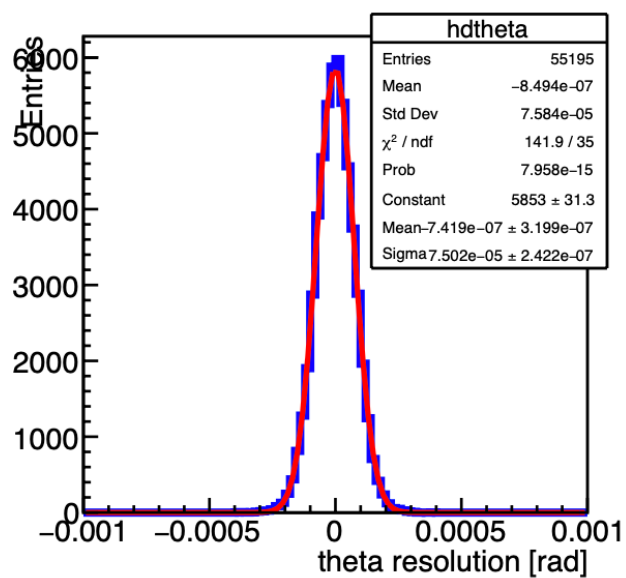
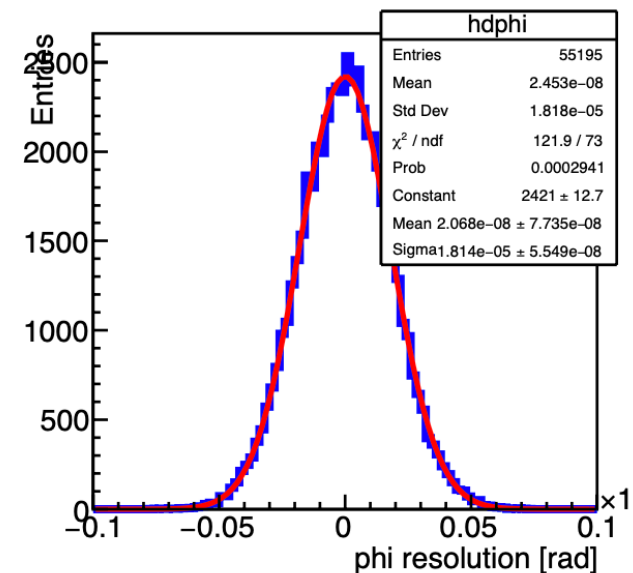
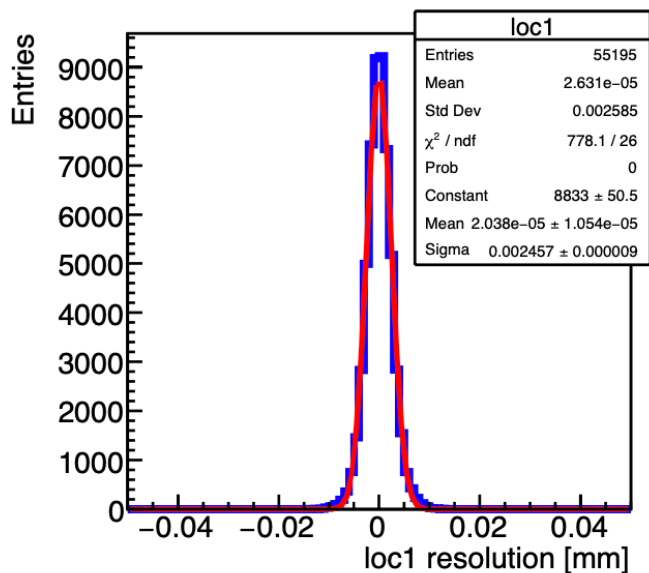
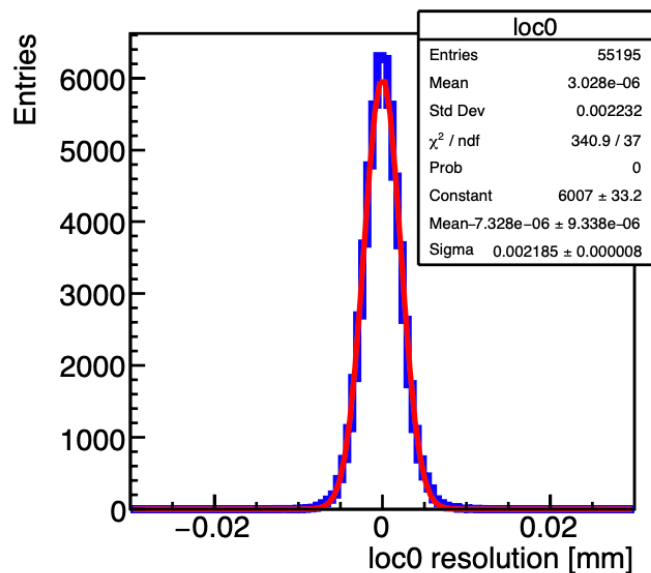


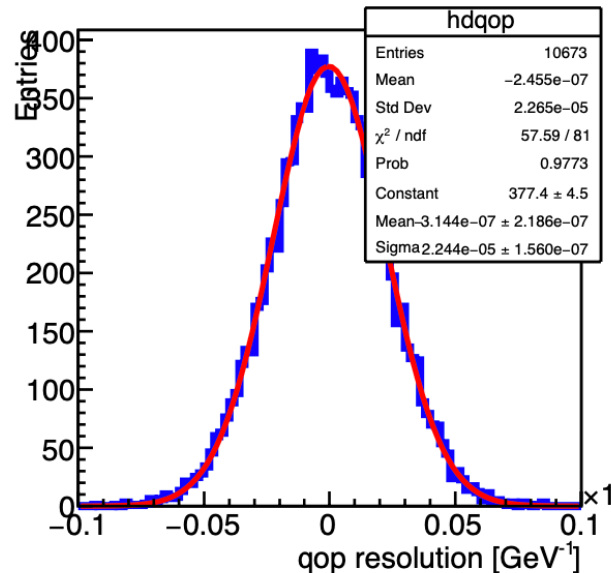
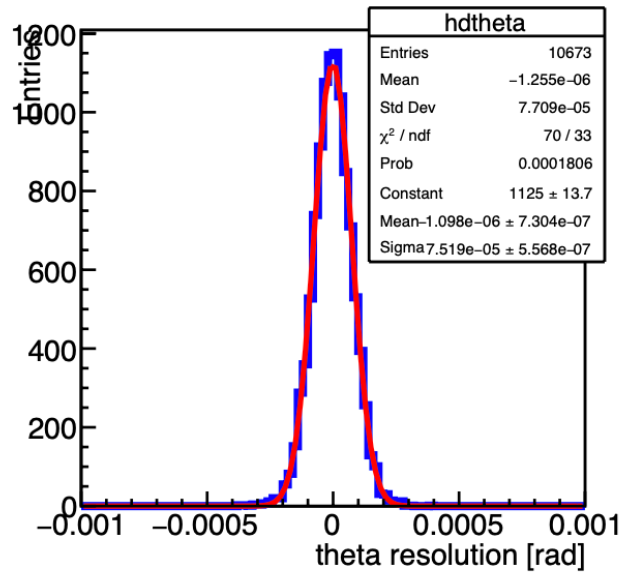
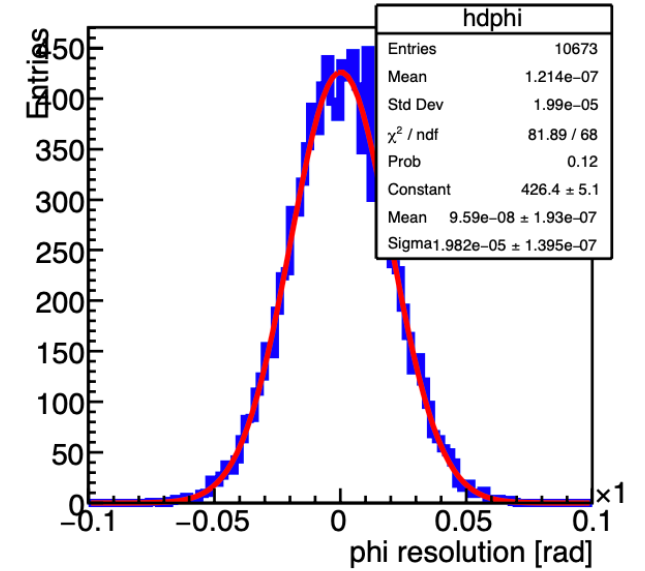
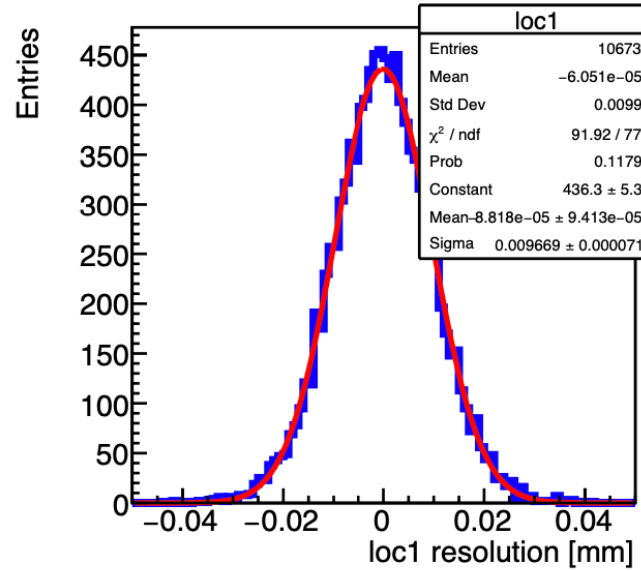
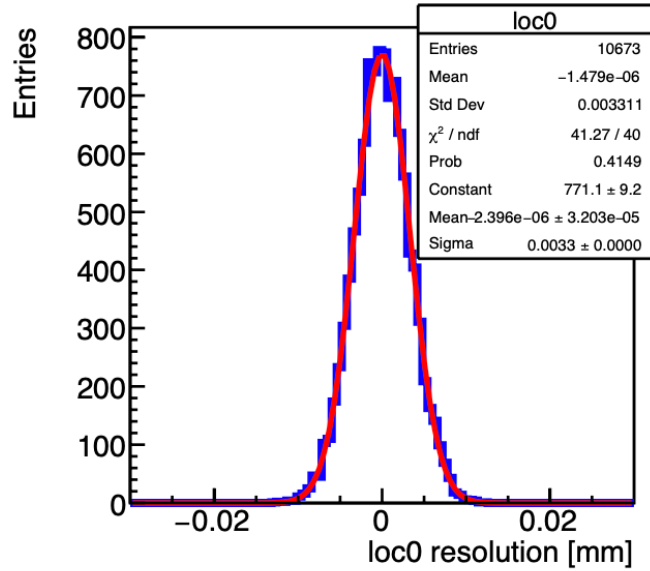
Smoothing state check

- Track parameters
- Smooth state - truth parameter

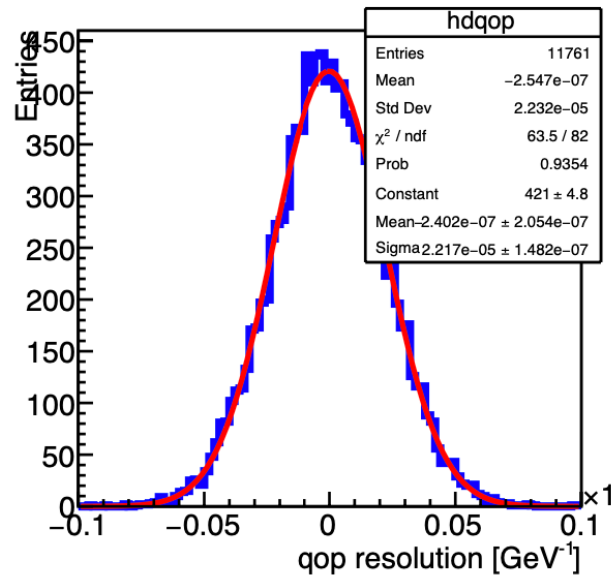
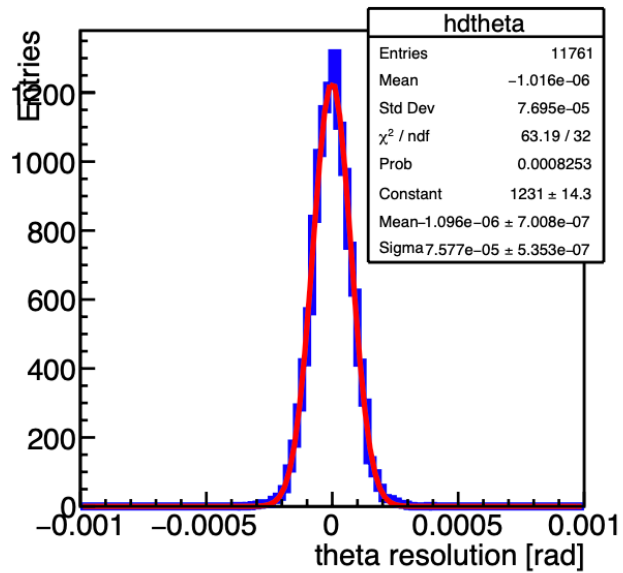
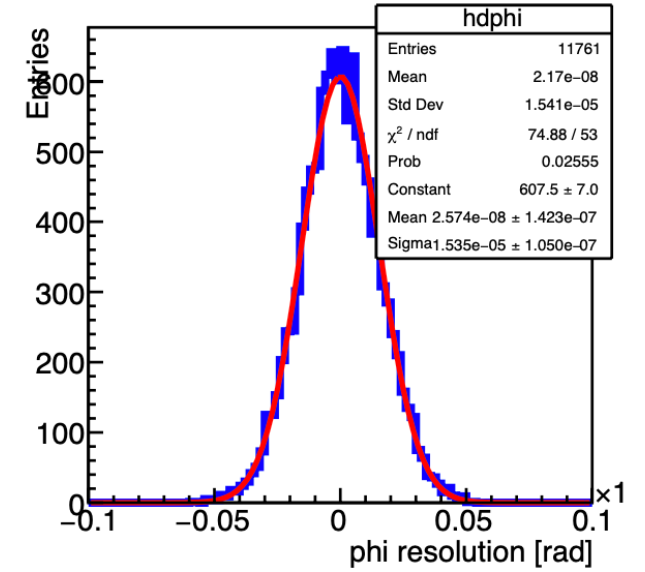
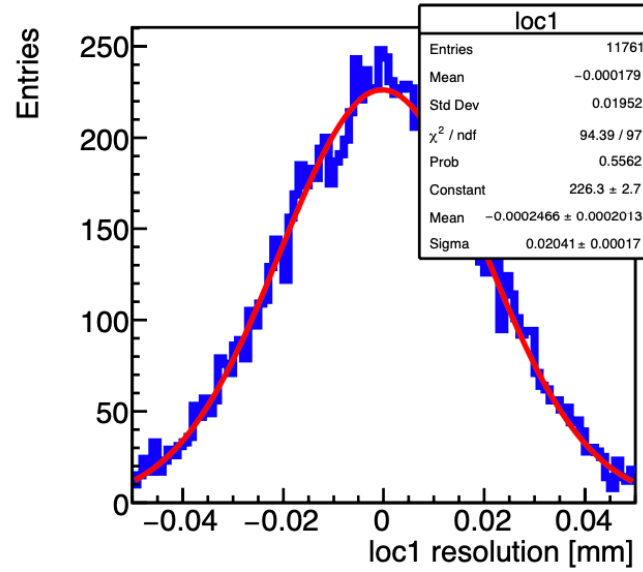
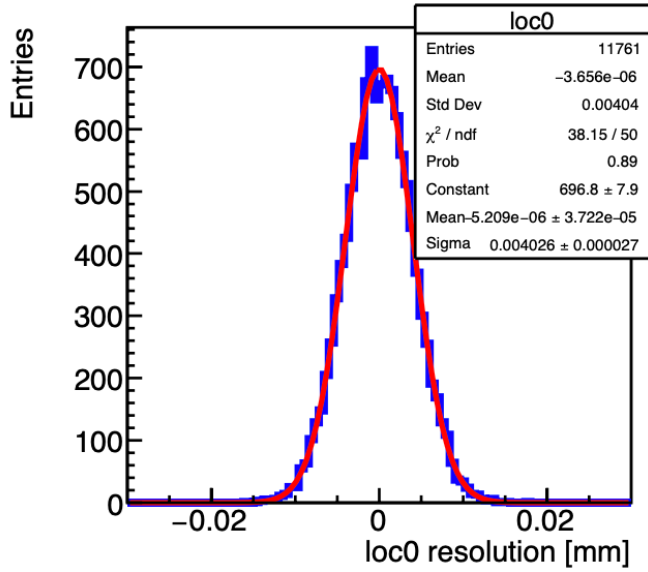
VTX



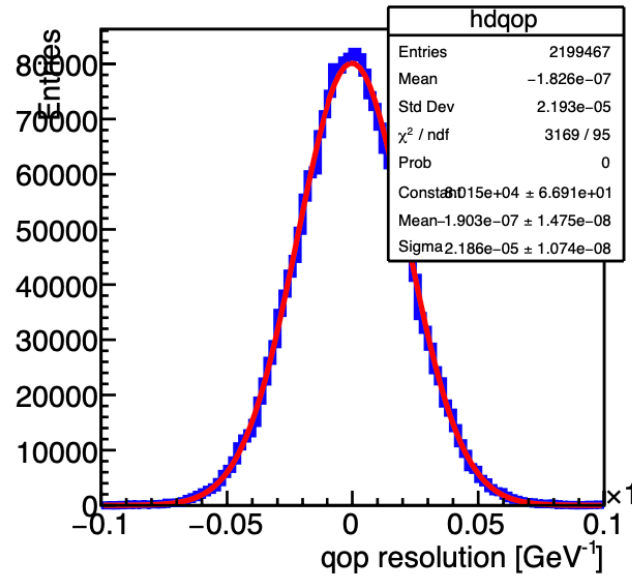
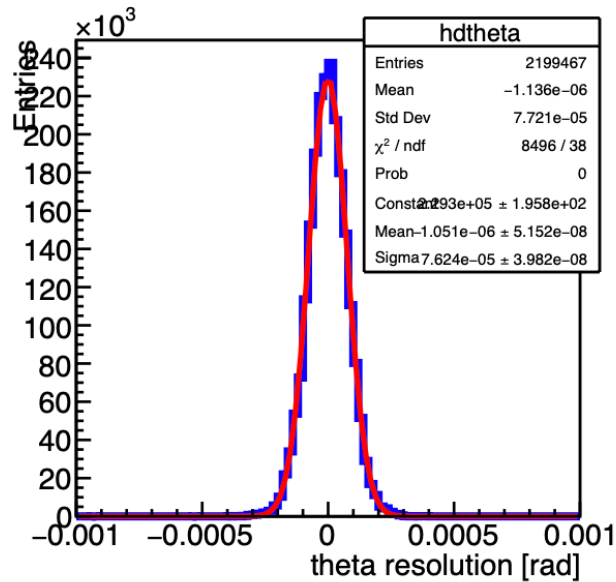
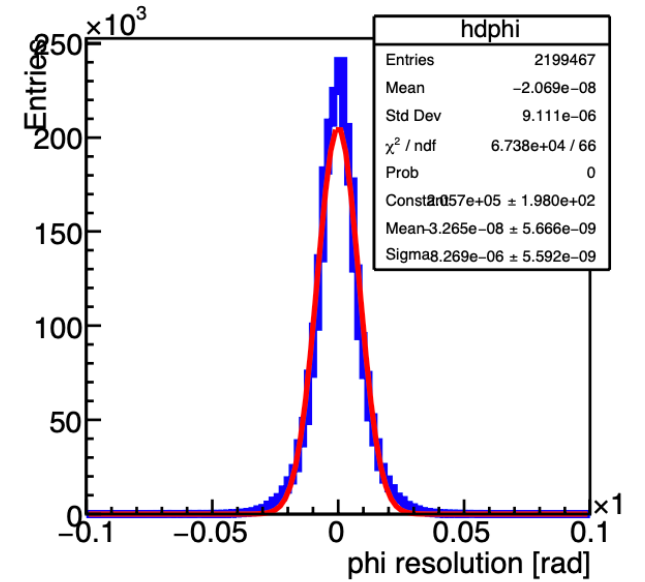
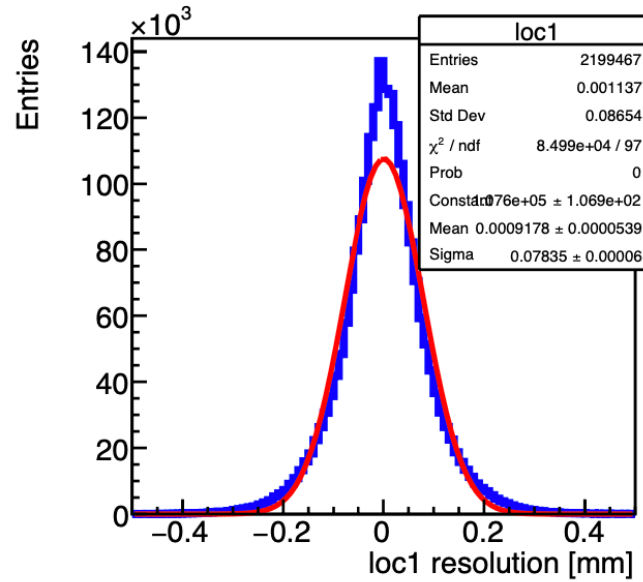
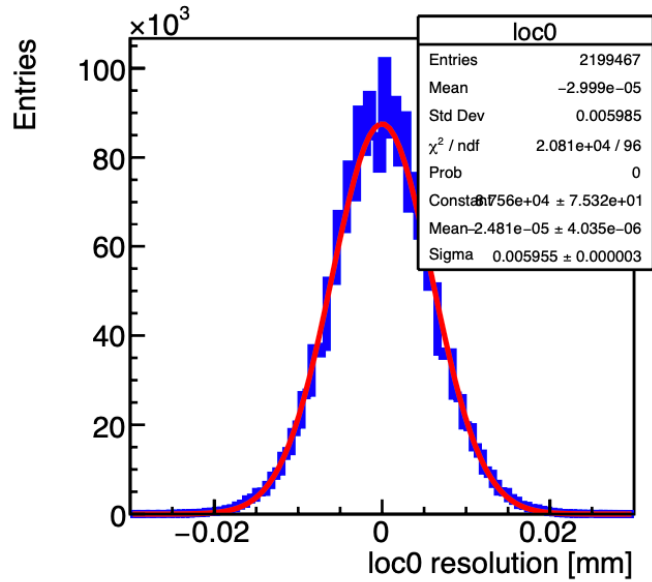
SIT1



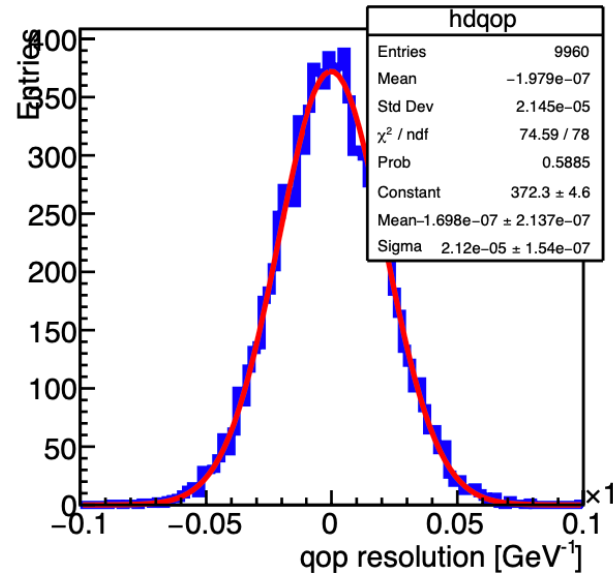
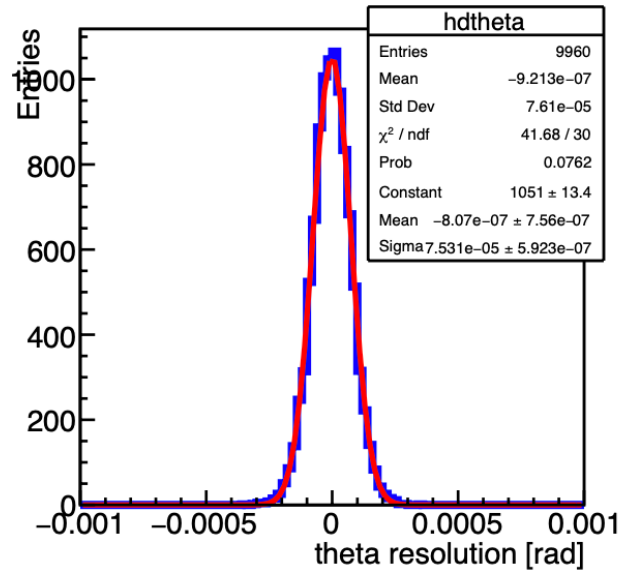
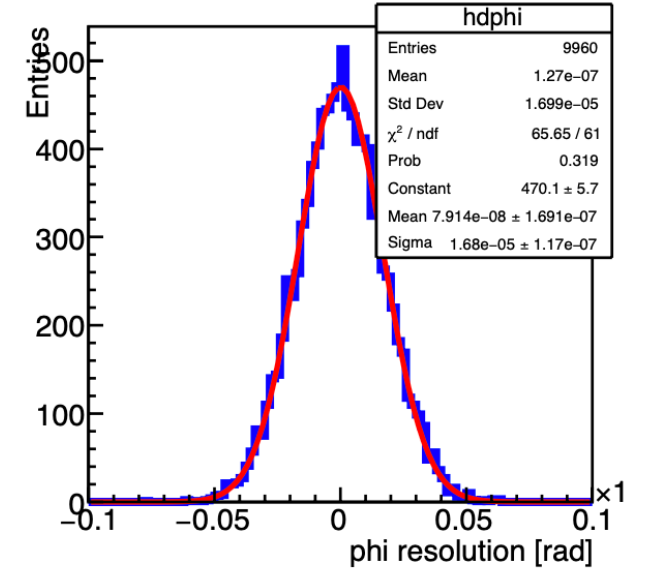
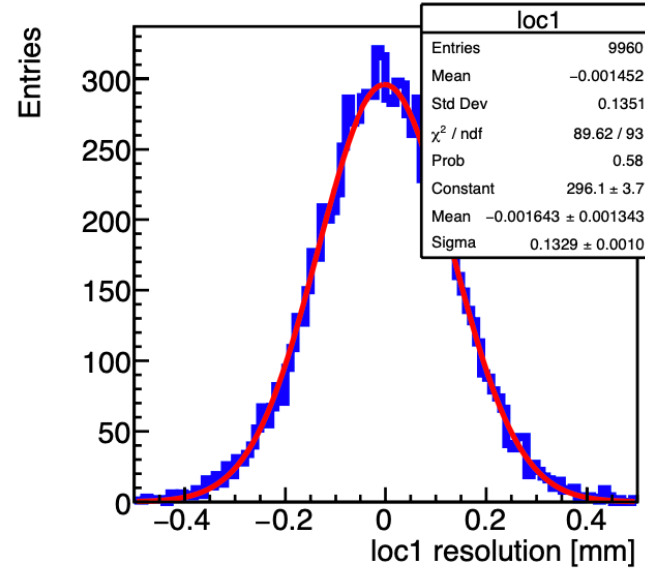
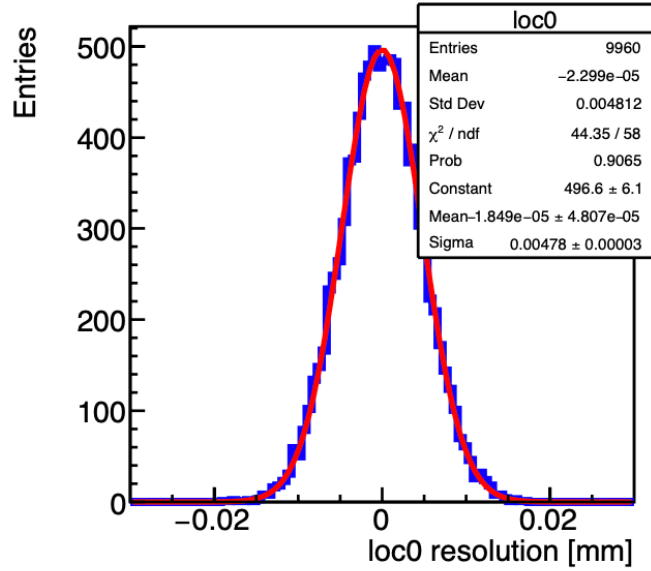
SIT2



TPC

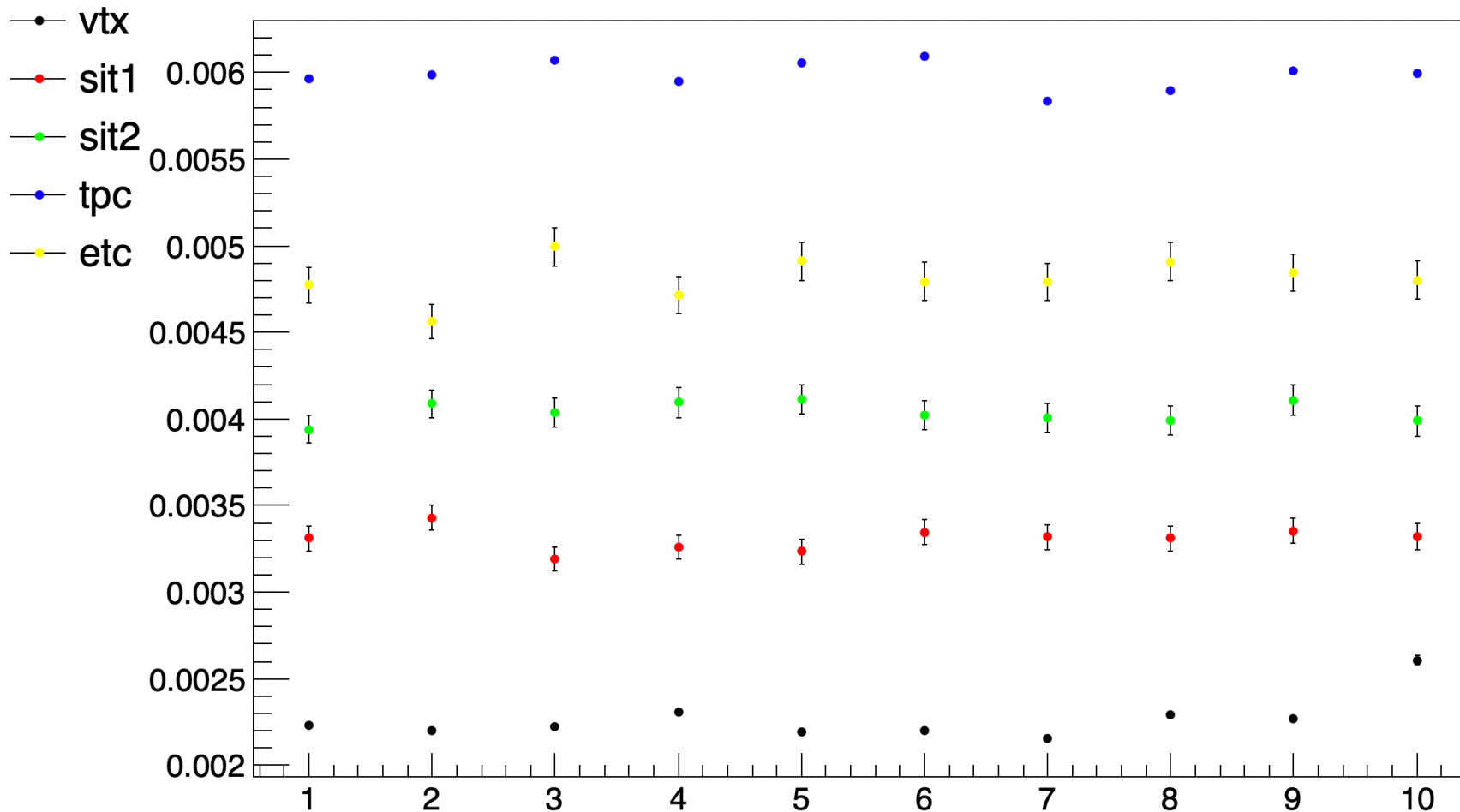


SET



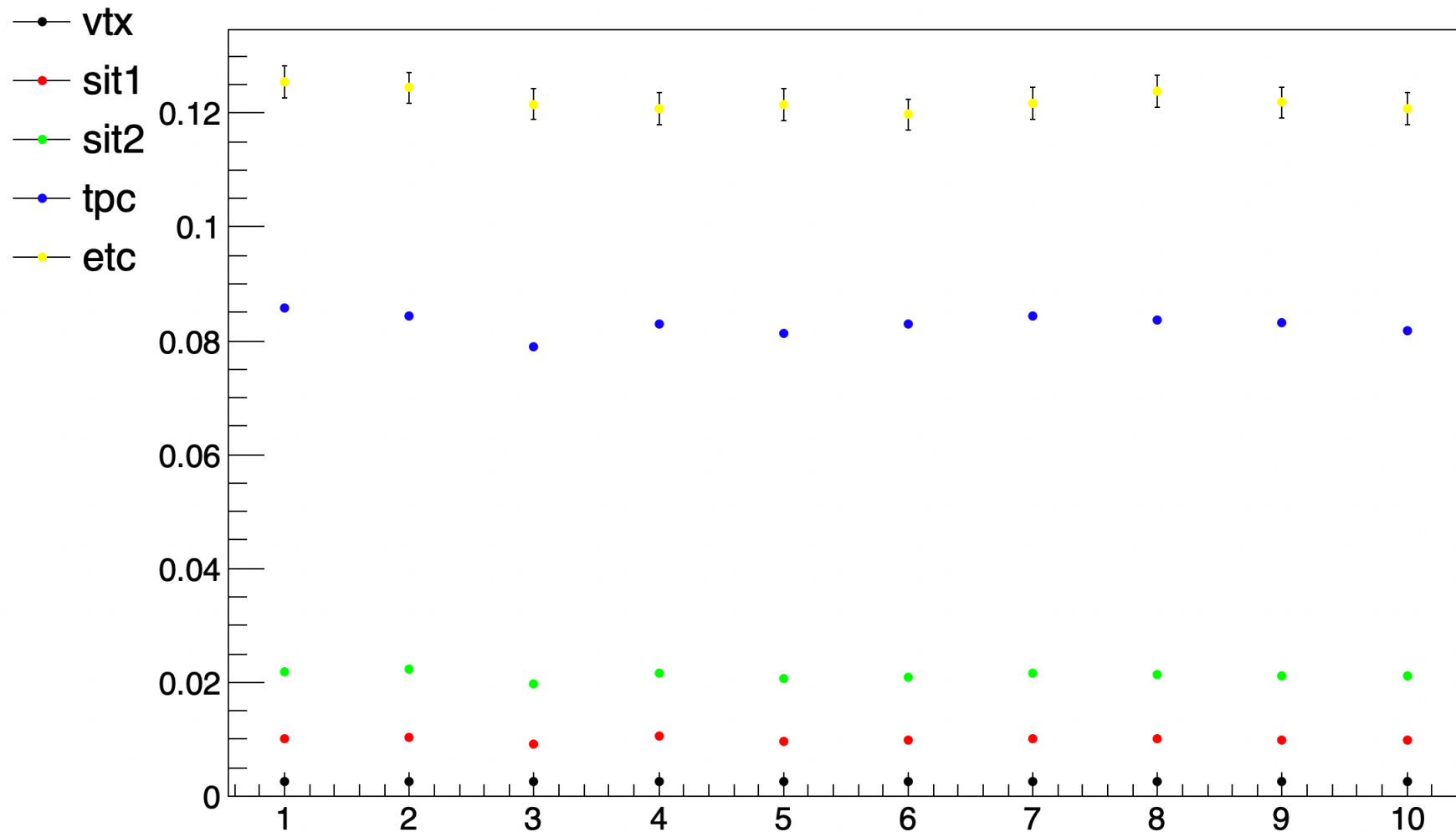
Phibins - Loc0

From $-\pi$ to π , 10 bins



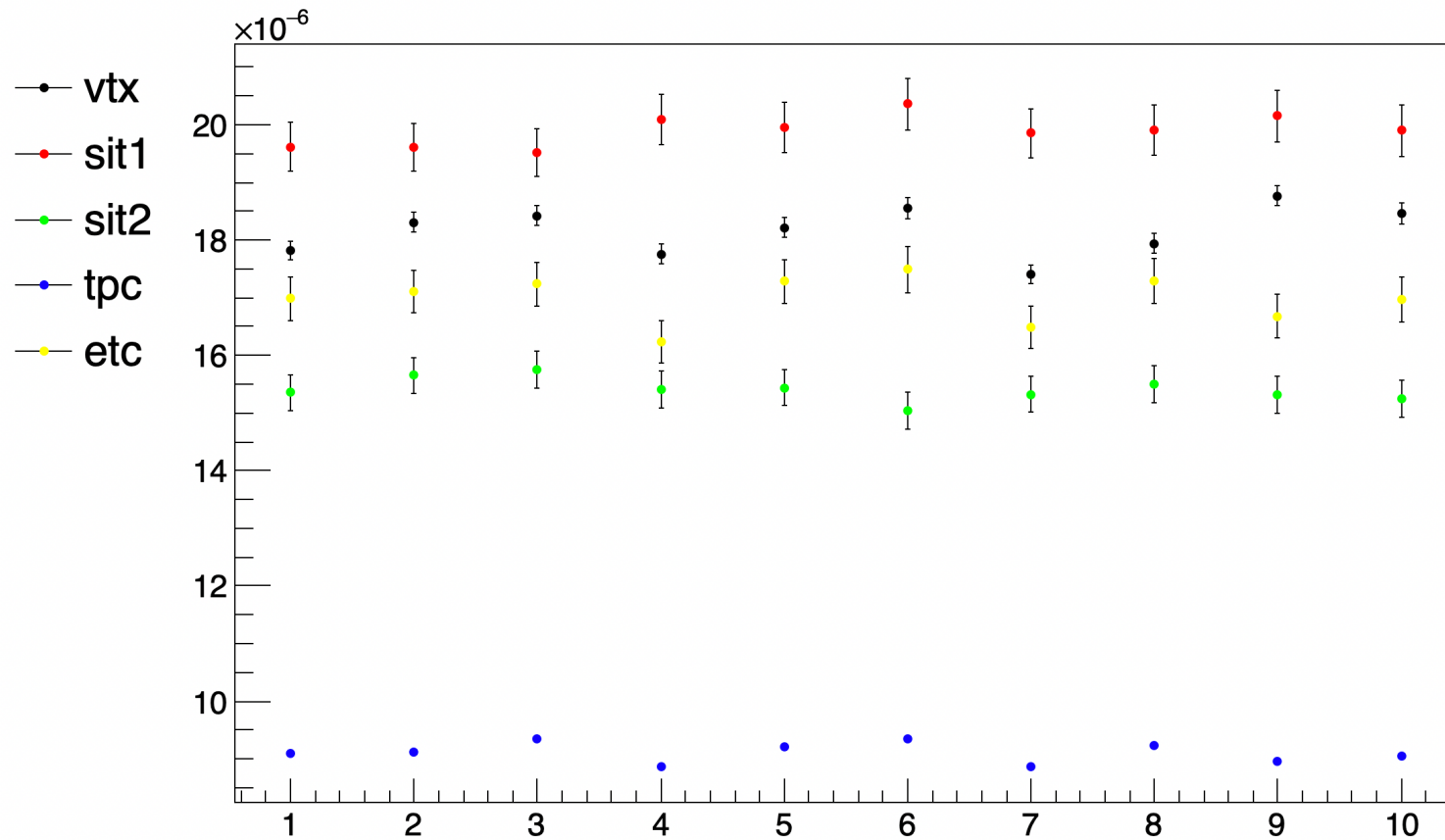
Phibins - Loc1

From $-\pi$ to π , 10 bins



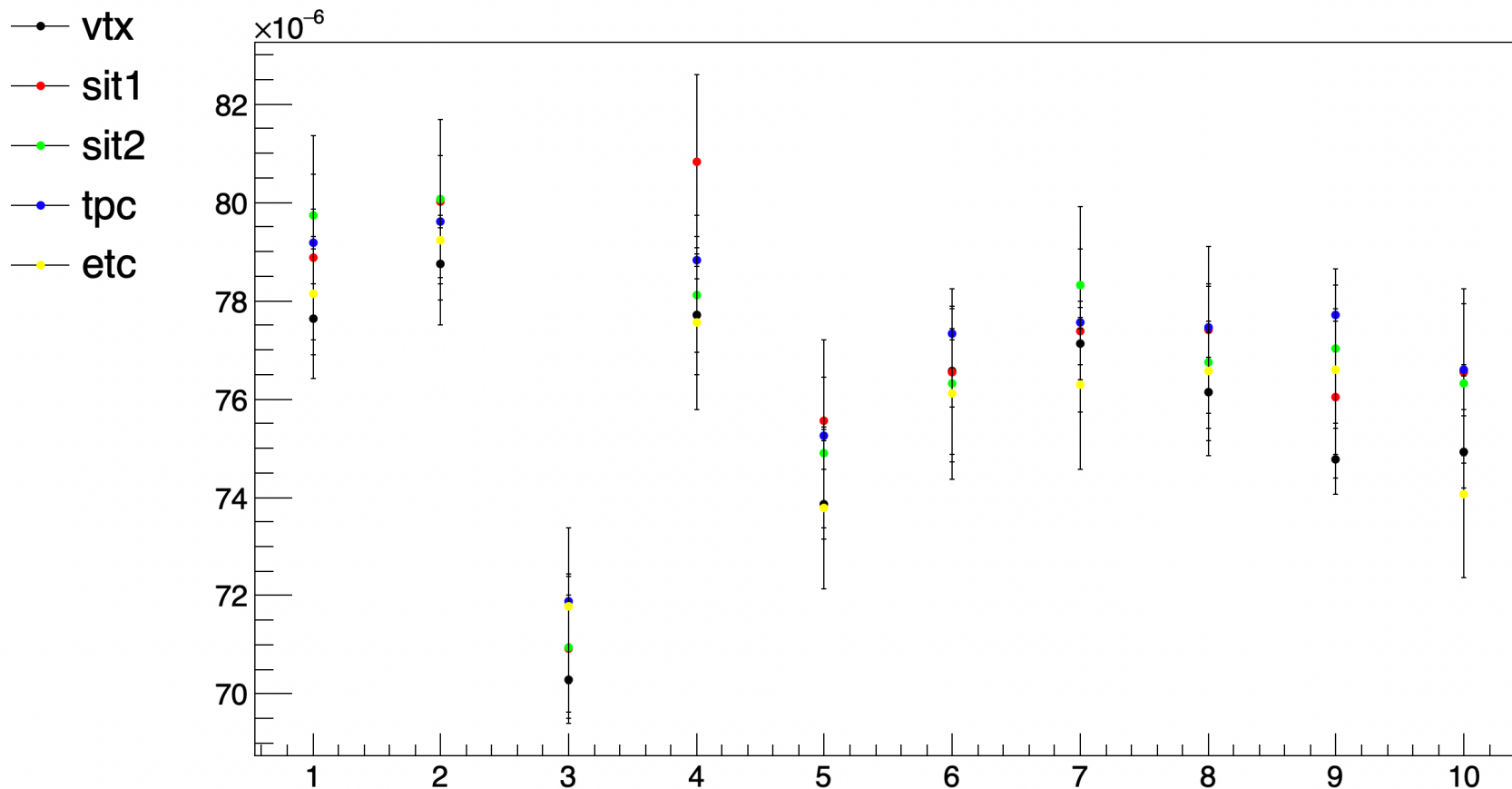
Phibins - ePHI

From $-\pi$ to π , 10 bins



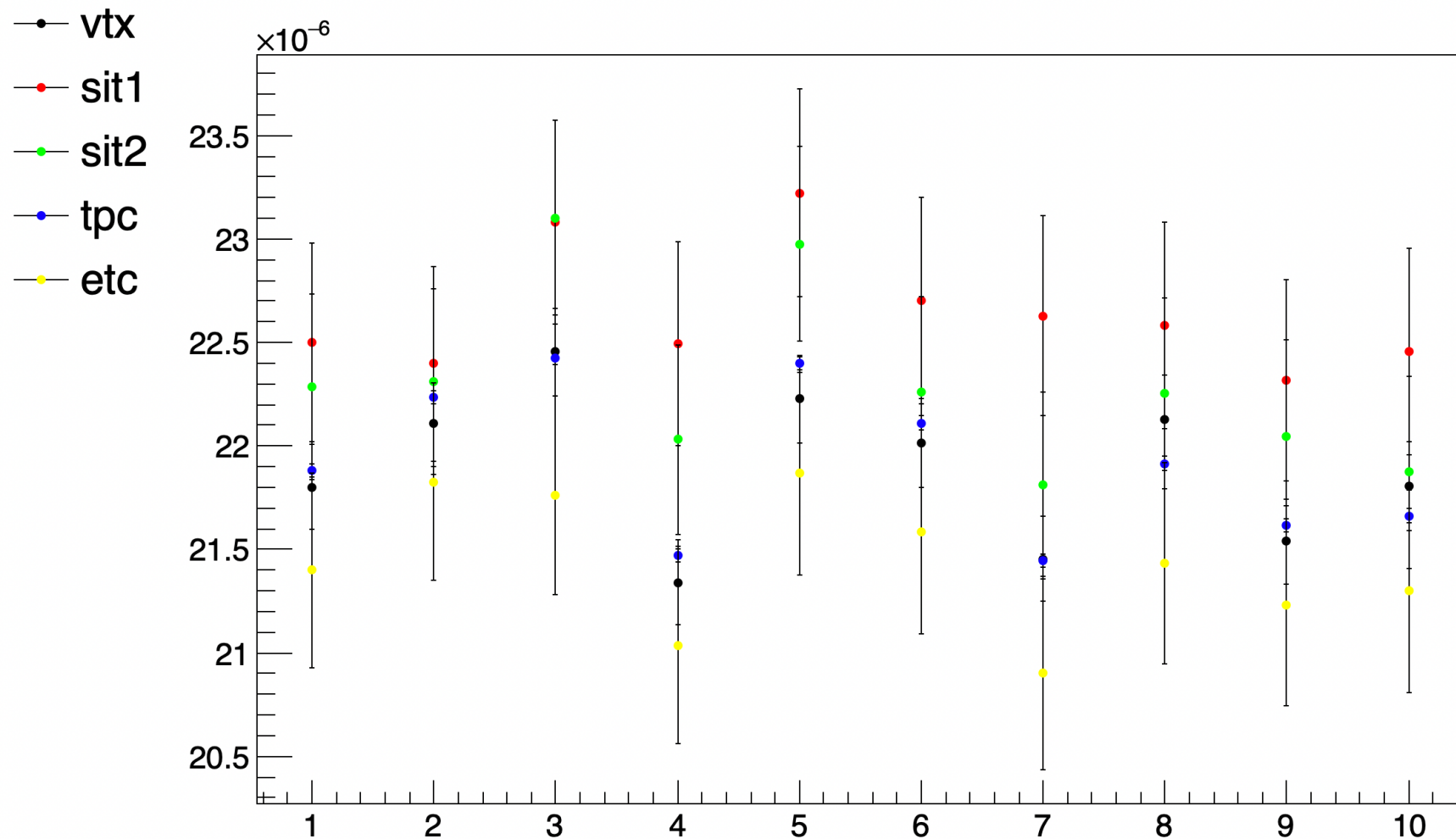
Phibins - eTHETA

From $-\pi$ to π , 10 bins



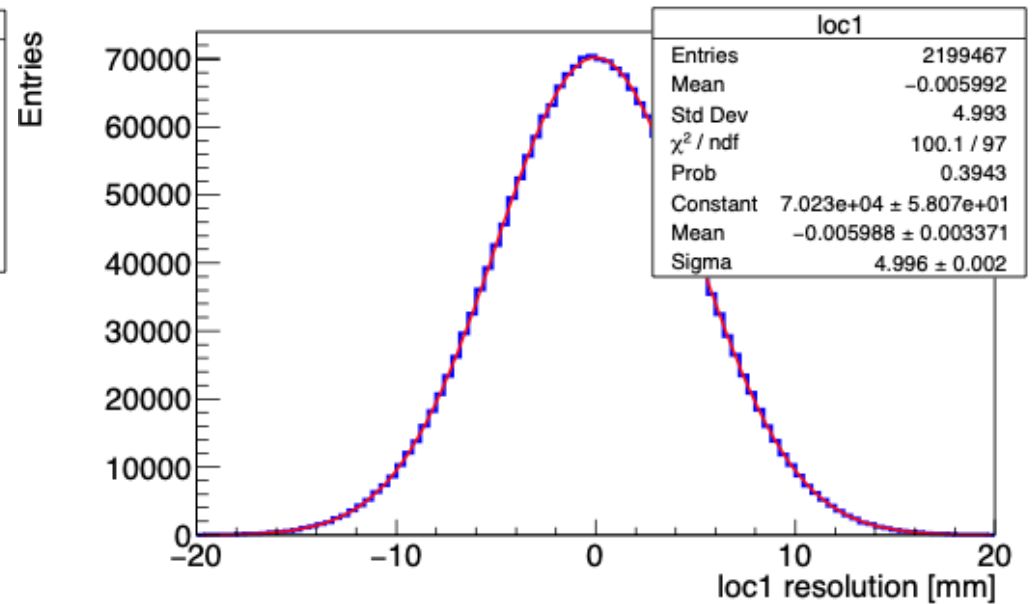
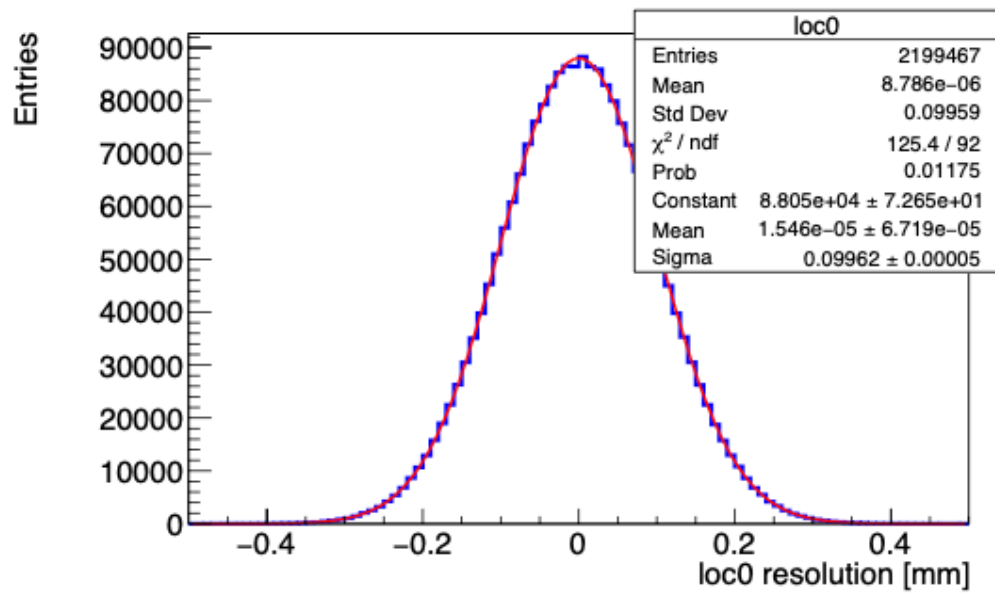
Phibins - eQOP

From $-\pi$ to π , 10 bins



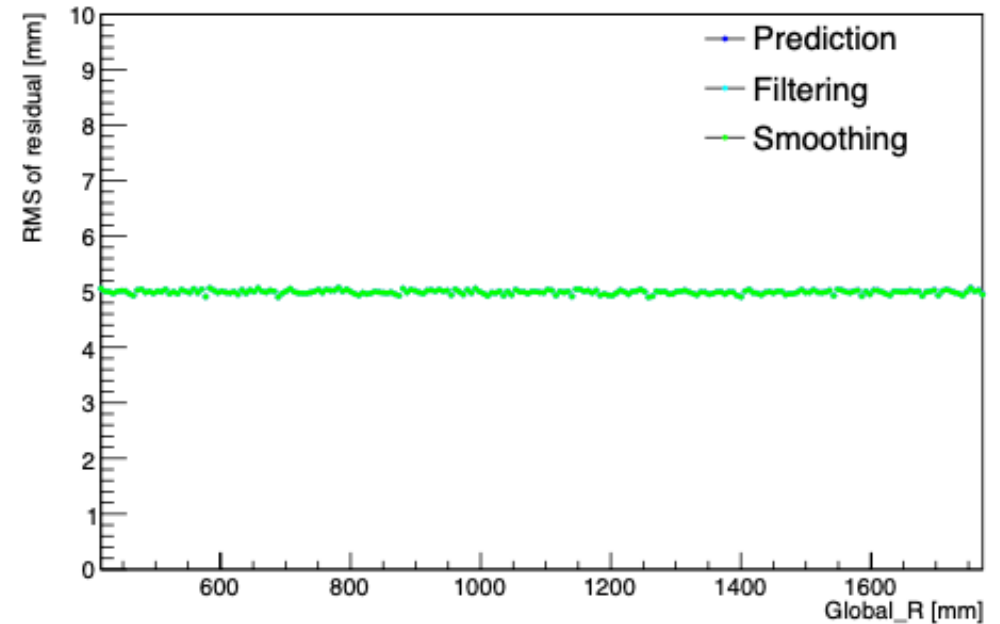
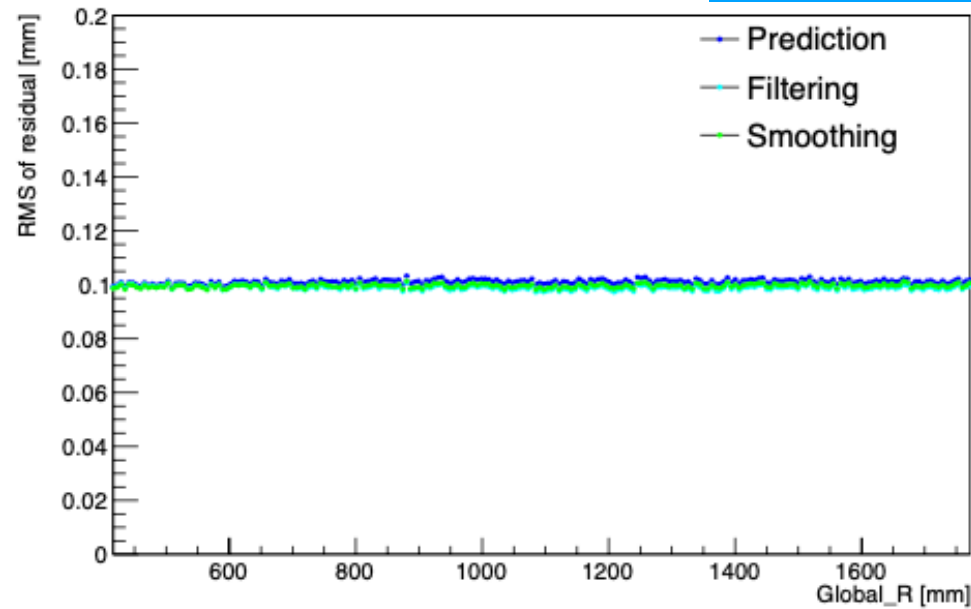
- Measurement resolution
- Smooth state - measurement

TPC

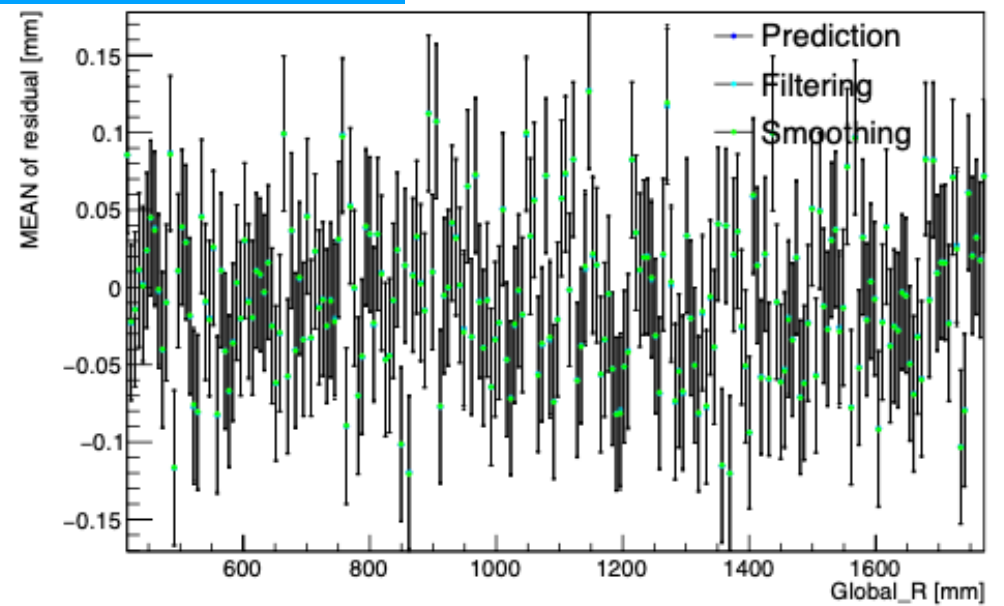
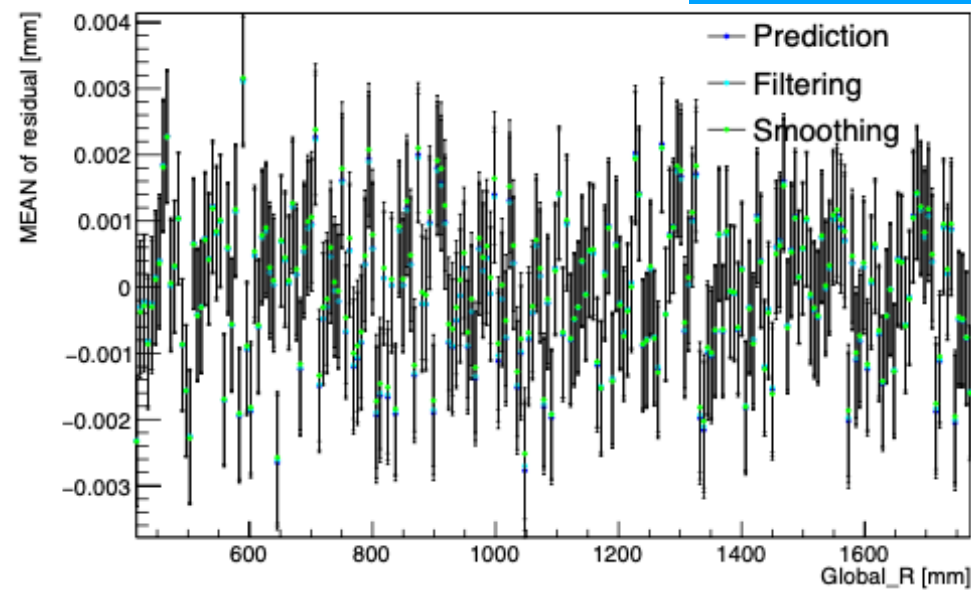


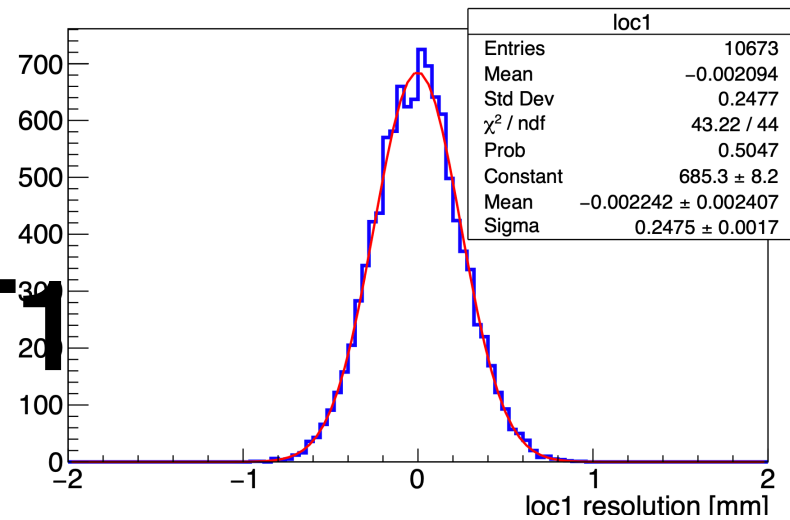
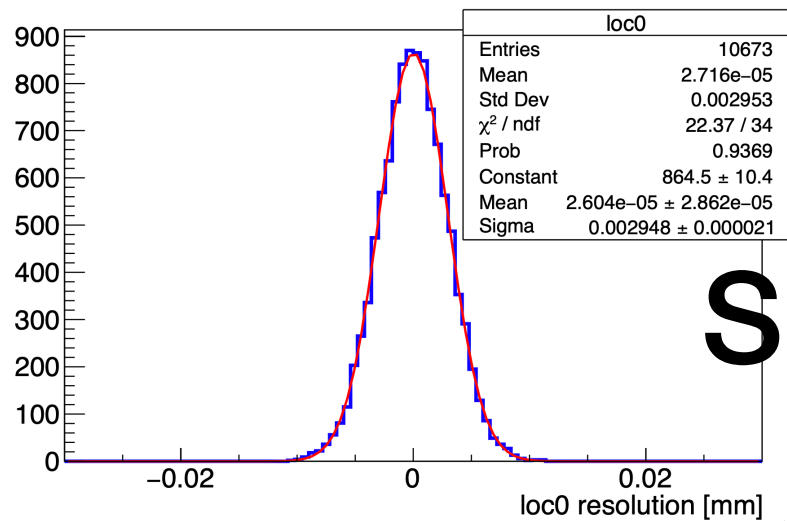
TPC

Resolution VS R

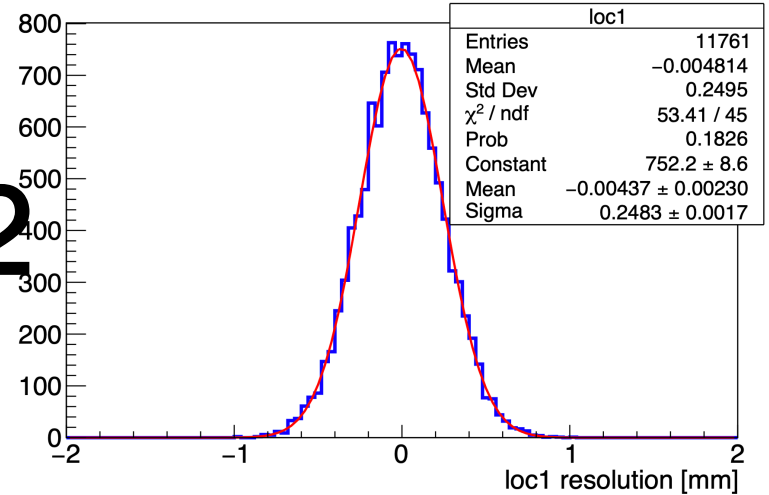
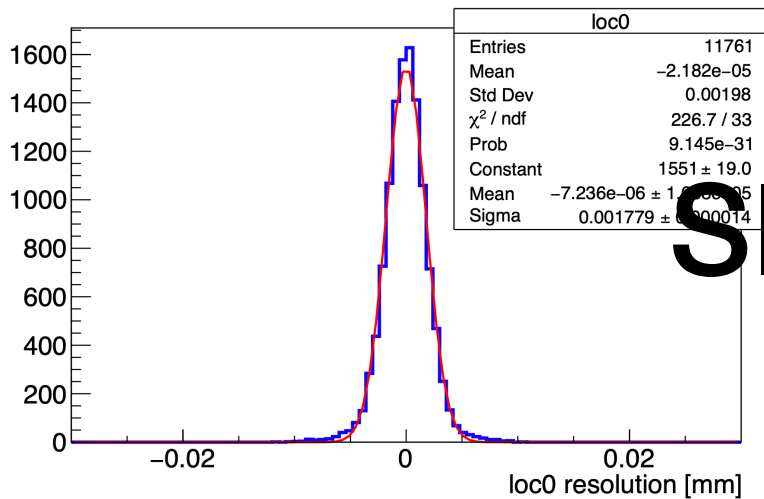


MEAN VS R

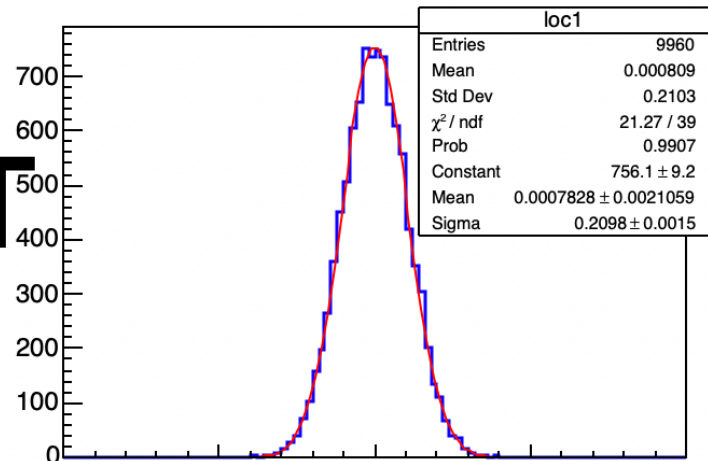
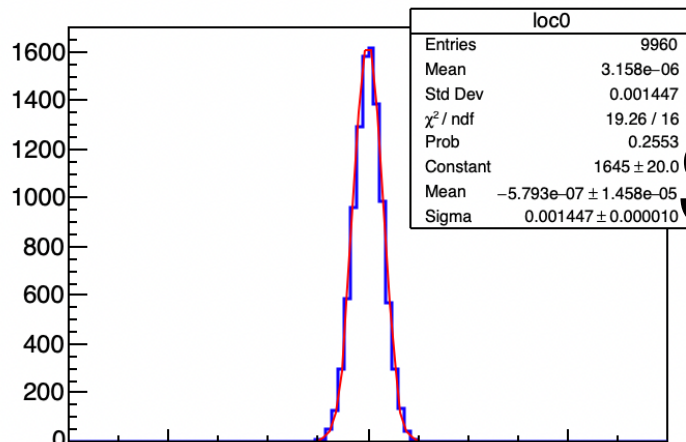




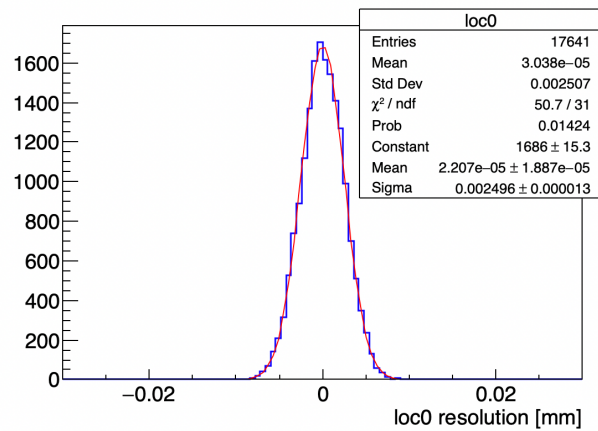
SIT1



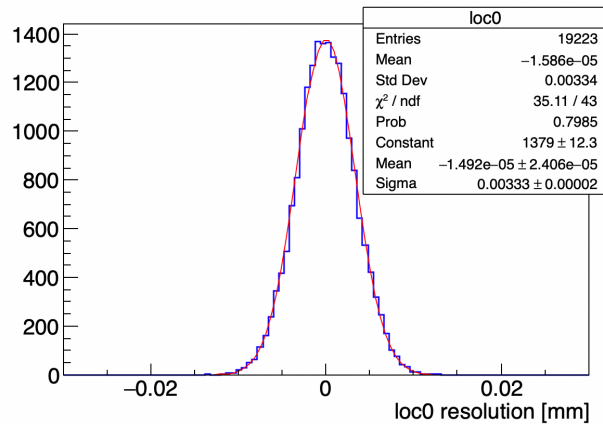
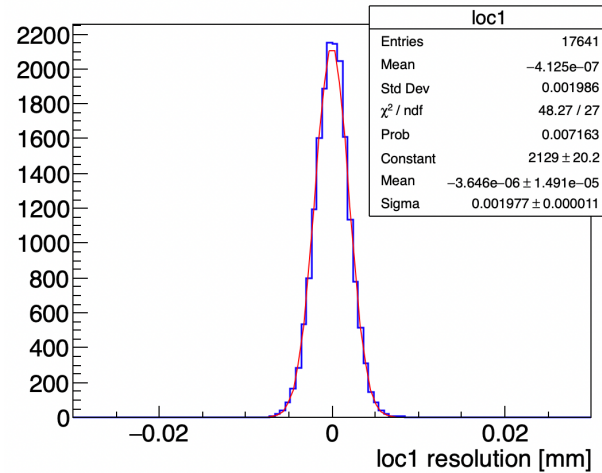
SIT2



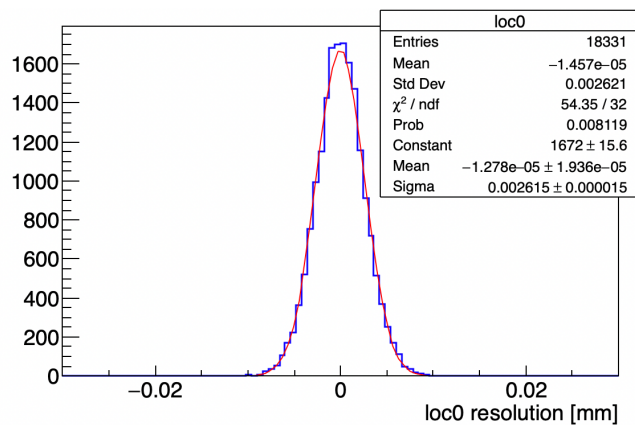
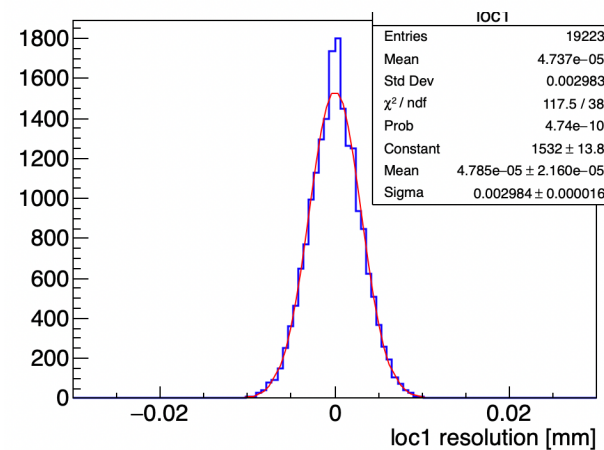
SET



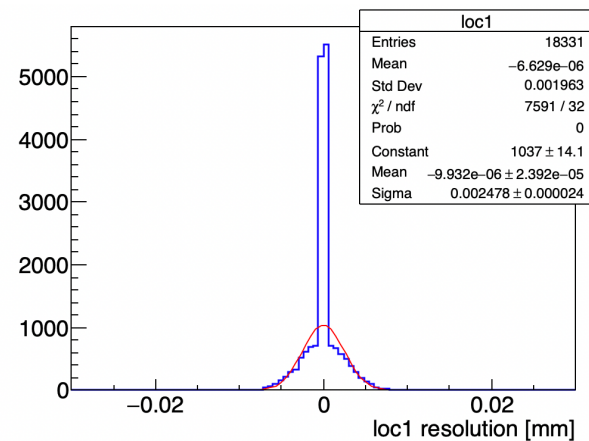
VTX1



VTX2

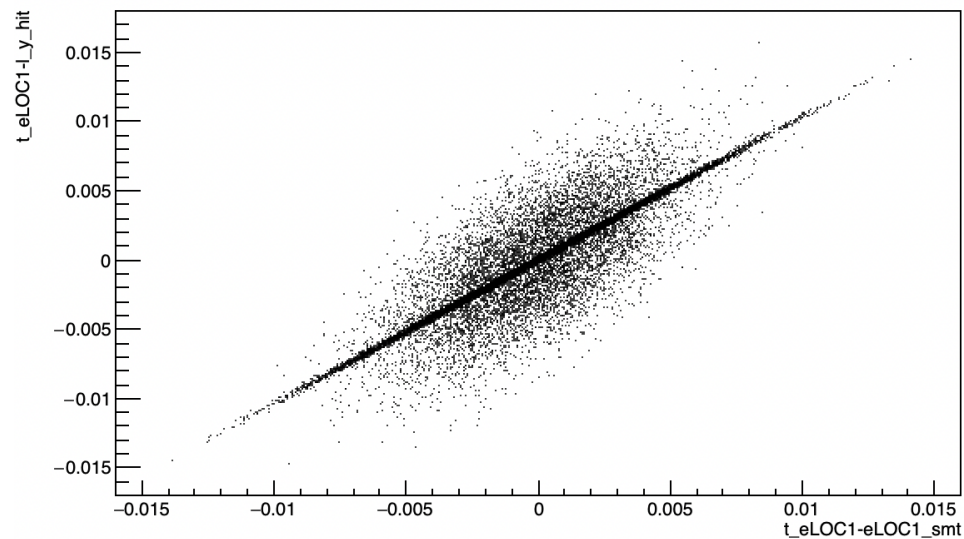


VTX3

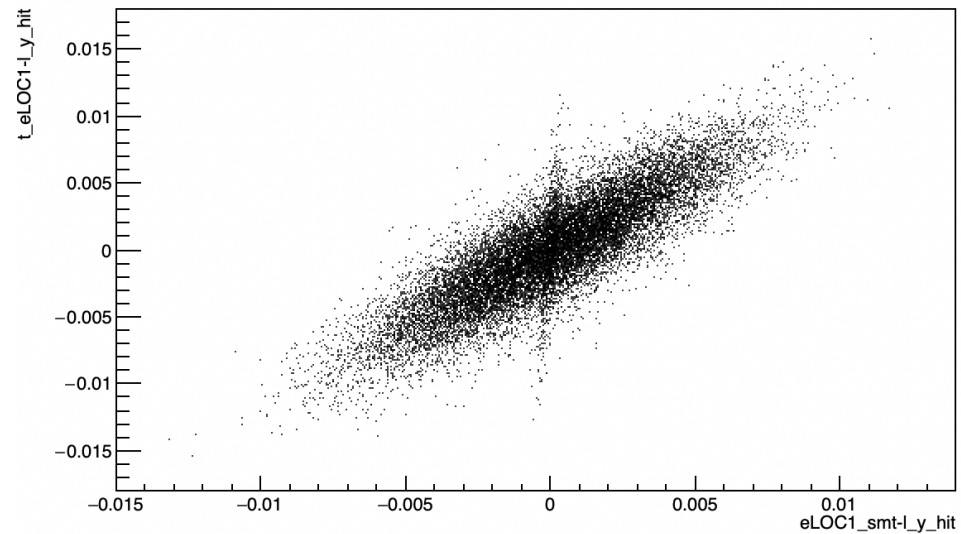


BACKUP

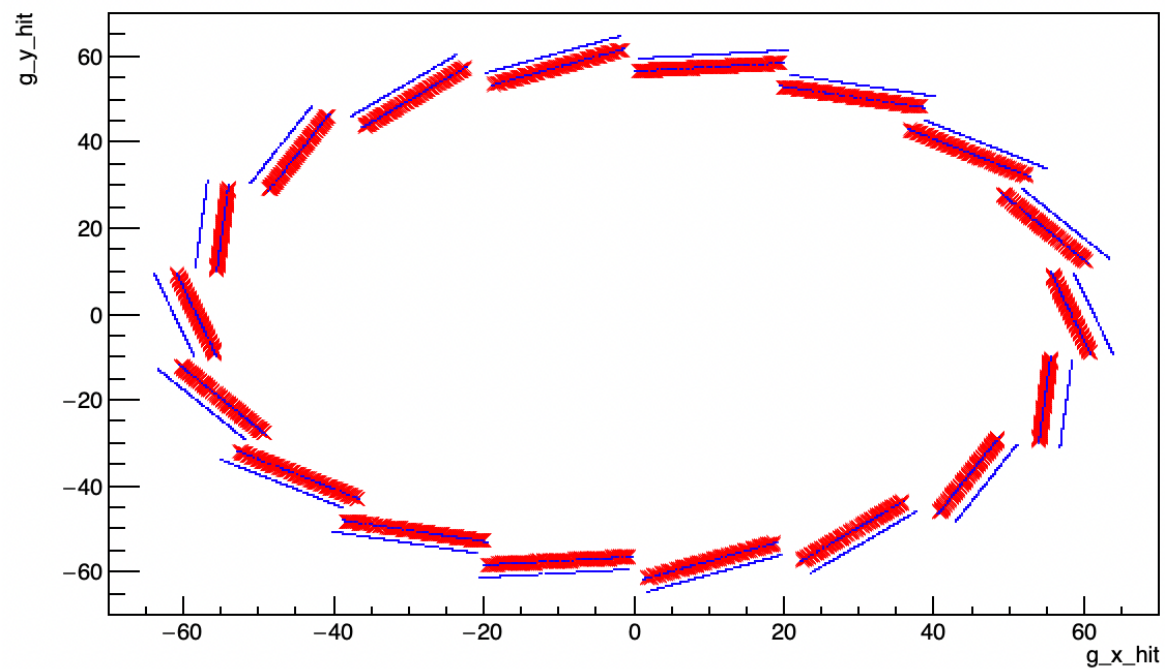
t_eLOC1-l_y_hit:t_eLOC1-eLOC1_smt {layer_id ==6 && volume_id ==23 && abs(eLOC1_smt-t_eLOC1)<0.1}



t_eLOC1-l_y_hit:eLOC1_smt-l_y_hit {layer_id ==4 && volume_id ==23 && abs(eLOC1_smt-t_eLOC1)<0.1}

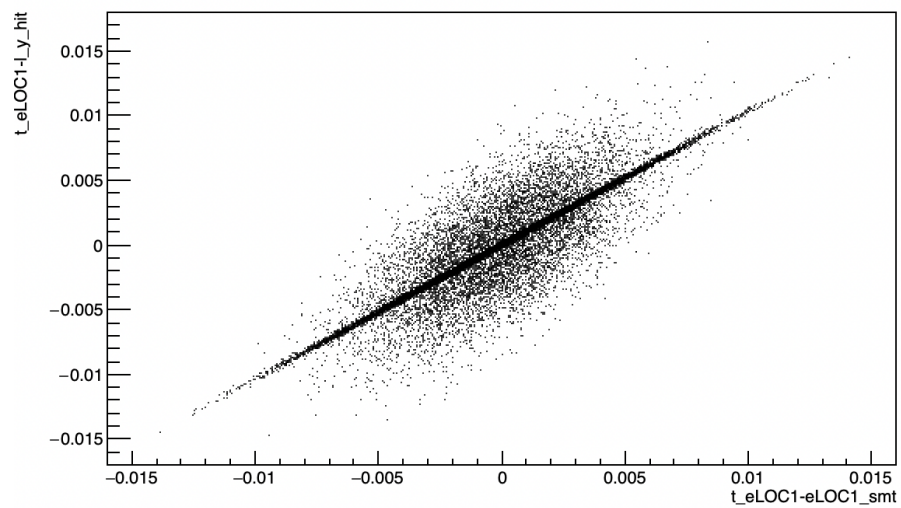


g_y_hit:g_x_hit {layer_id ==6 && volume_id ==23 && abs(eLOC1_smt-t_eLOC1)<0.1 && abs(eLOC1_smt-l_y_hit)>0.001}

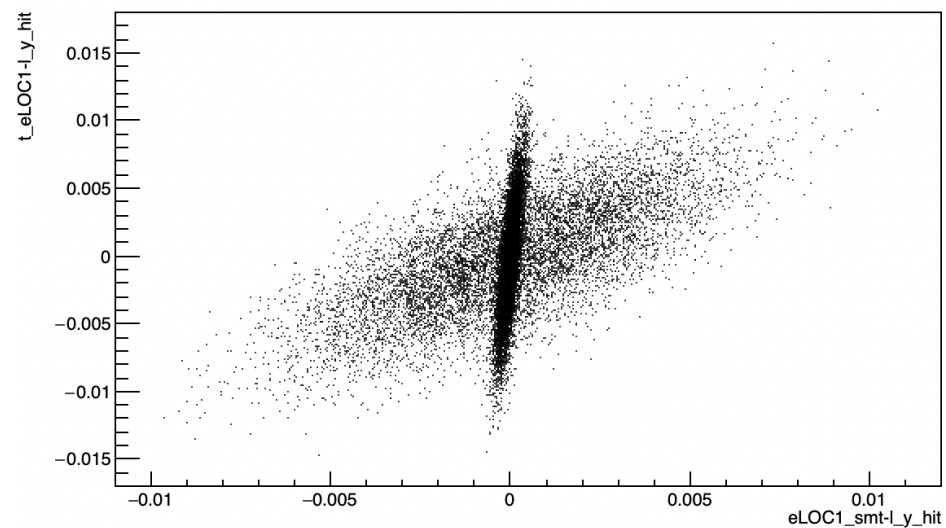


>0.001 都在内层

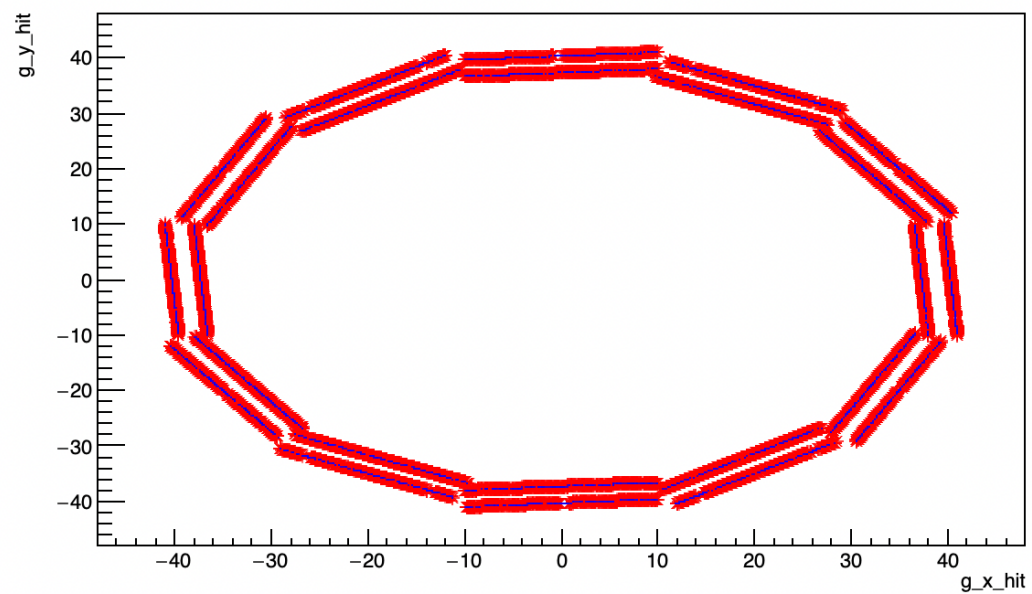
t_eLOC1-l_y_hit:t_eLOC1-eLOC1_smt {layer_id==6 && volume_id==23 && abs(eLOC1_smt-t_eLOC1)<0.1}

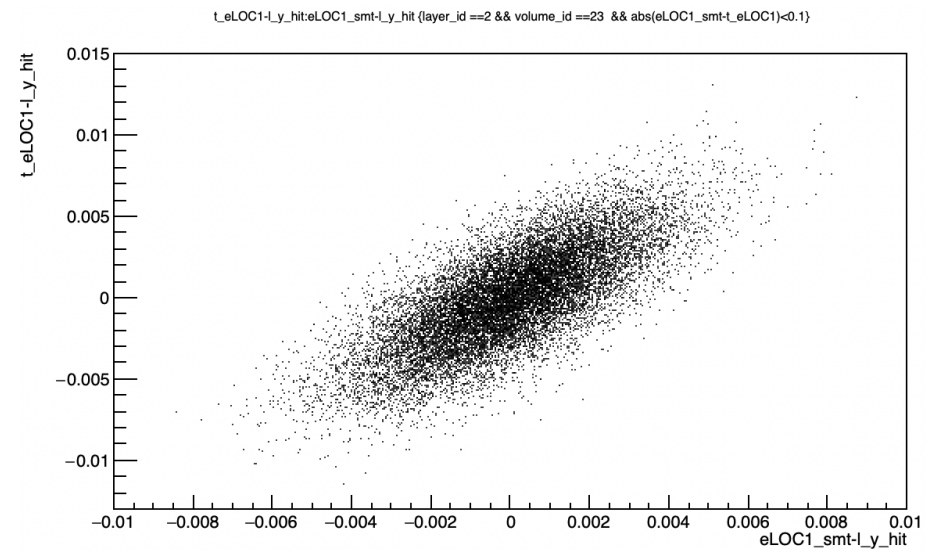
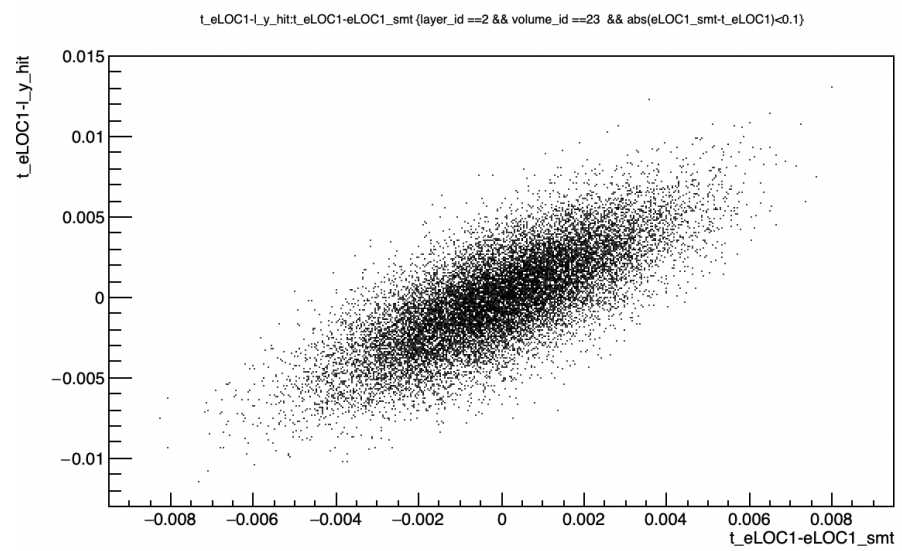


t_eLOC1-l_y_hit:eLOC1_smt-l_y_hit {layer_id==6 && volume_id==23 && abs(eLOC1_smt-t_eLOC1)<0.1}



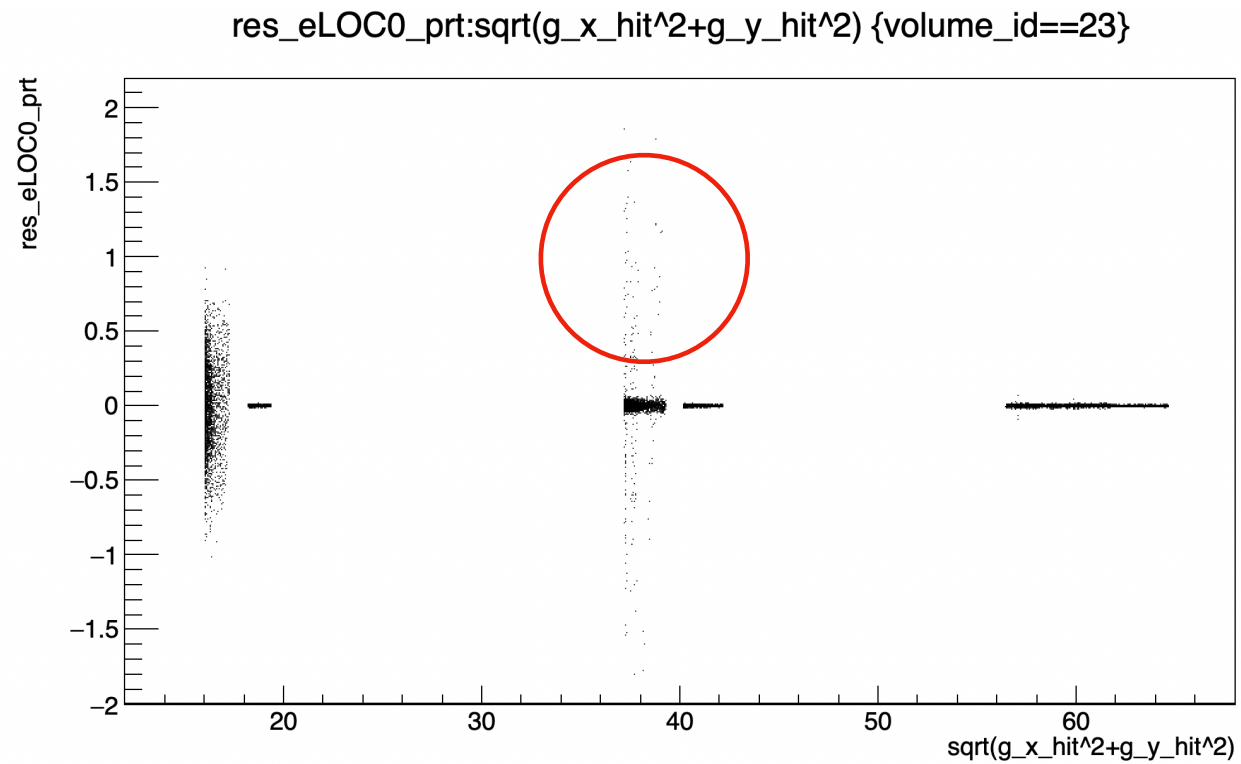
g_y_hit:g_x_hit {layer_id==4 && volume_id==23 && abs(eLOC1_smt-t_eLOC1)<0.1 && abs(eLOC1_smt-l_y_hit)>0.001}





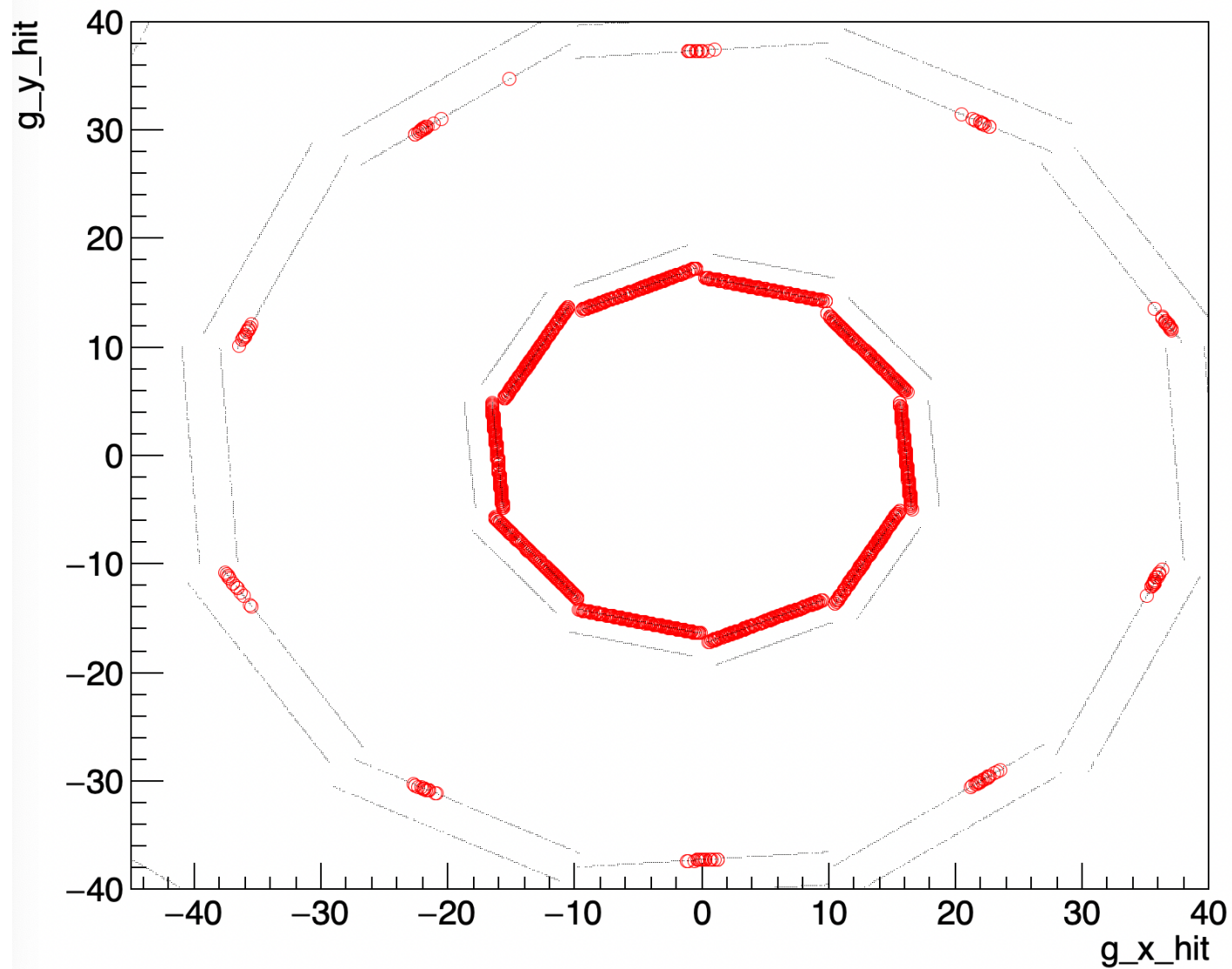
Issue 1

- Some bad resolution points



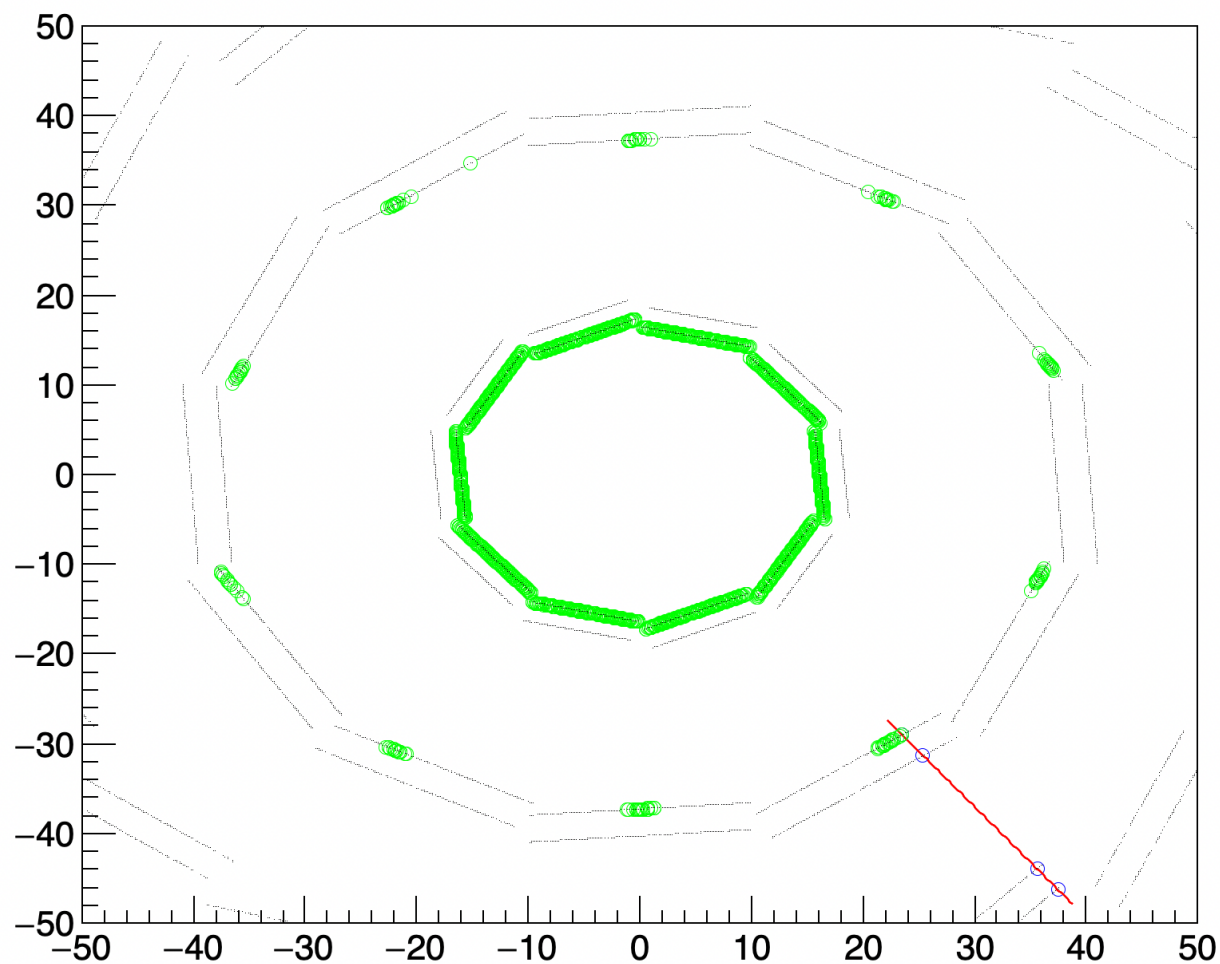
Periodic

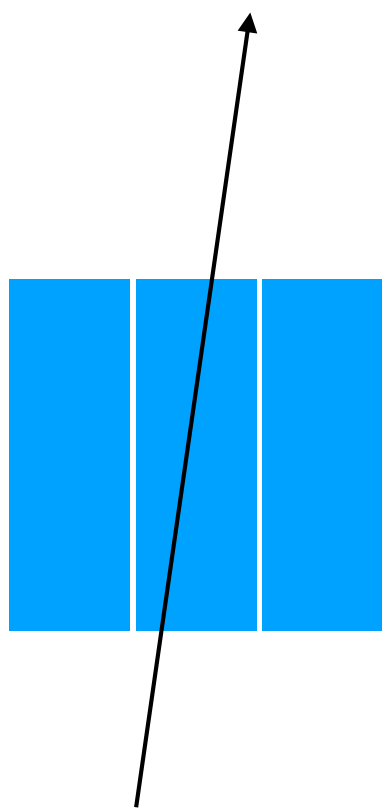
g_y_hit:g_x_hit {volume_id==23 && abs(res_eLOC0_prt) >0.1 }

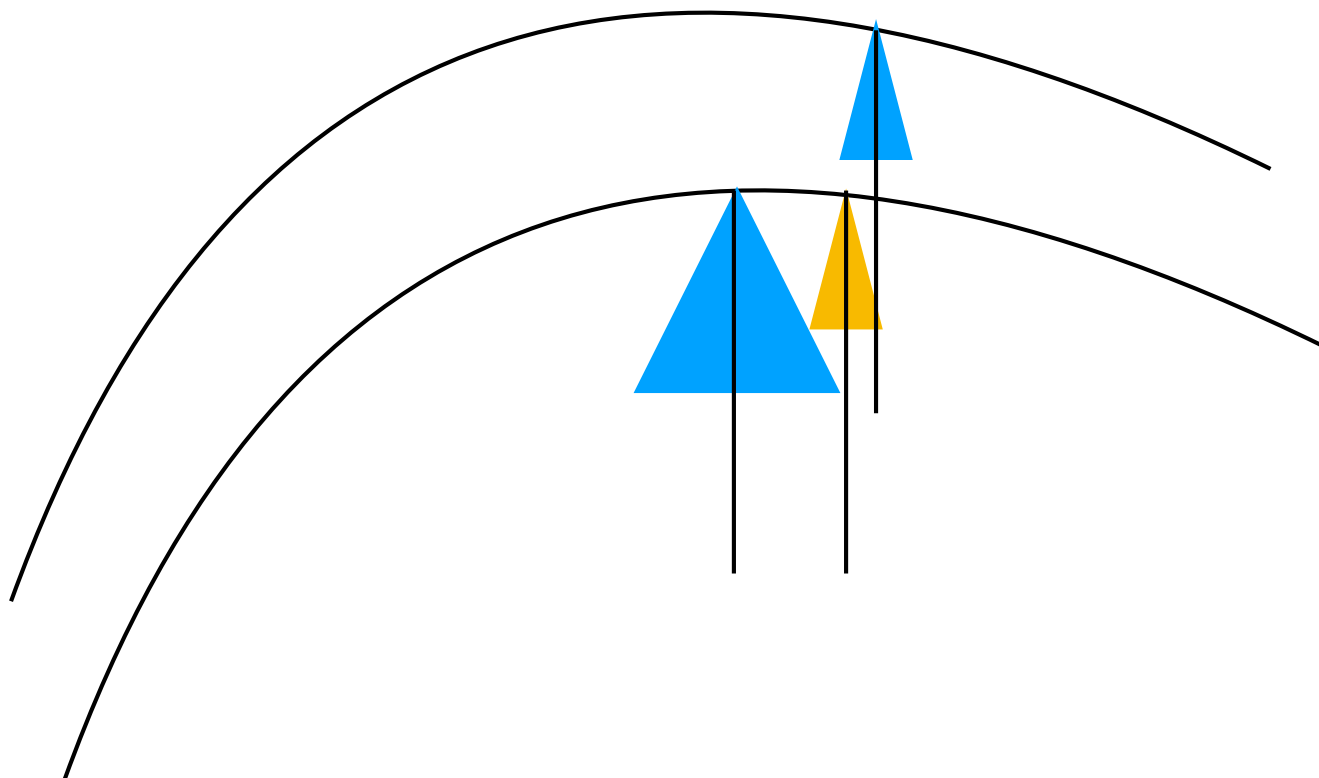


Missing 1st layer

g_y_hit:g_x_hit {volume_id==23 && event_nr==411 }

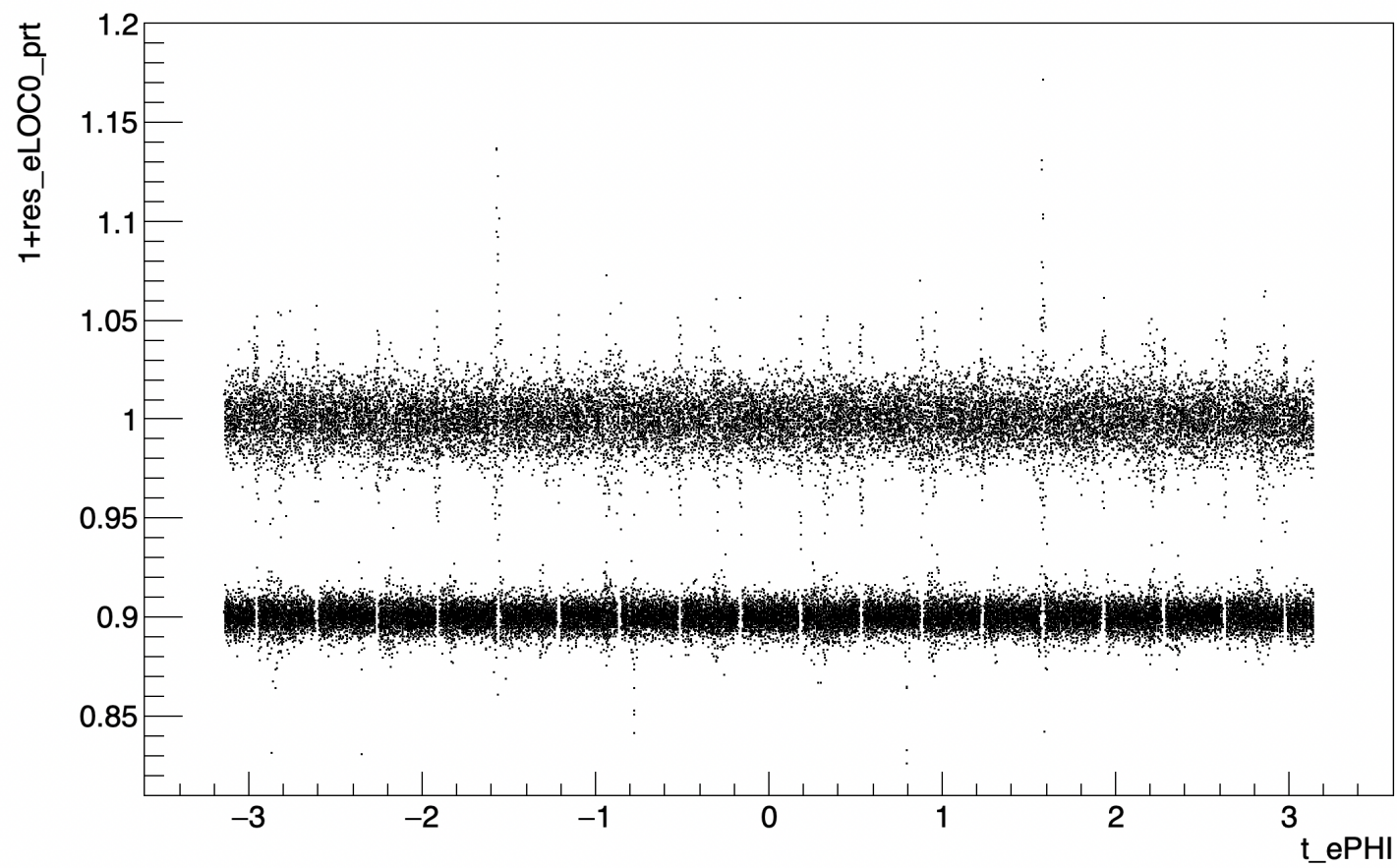






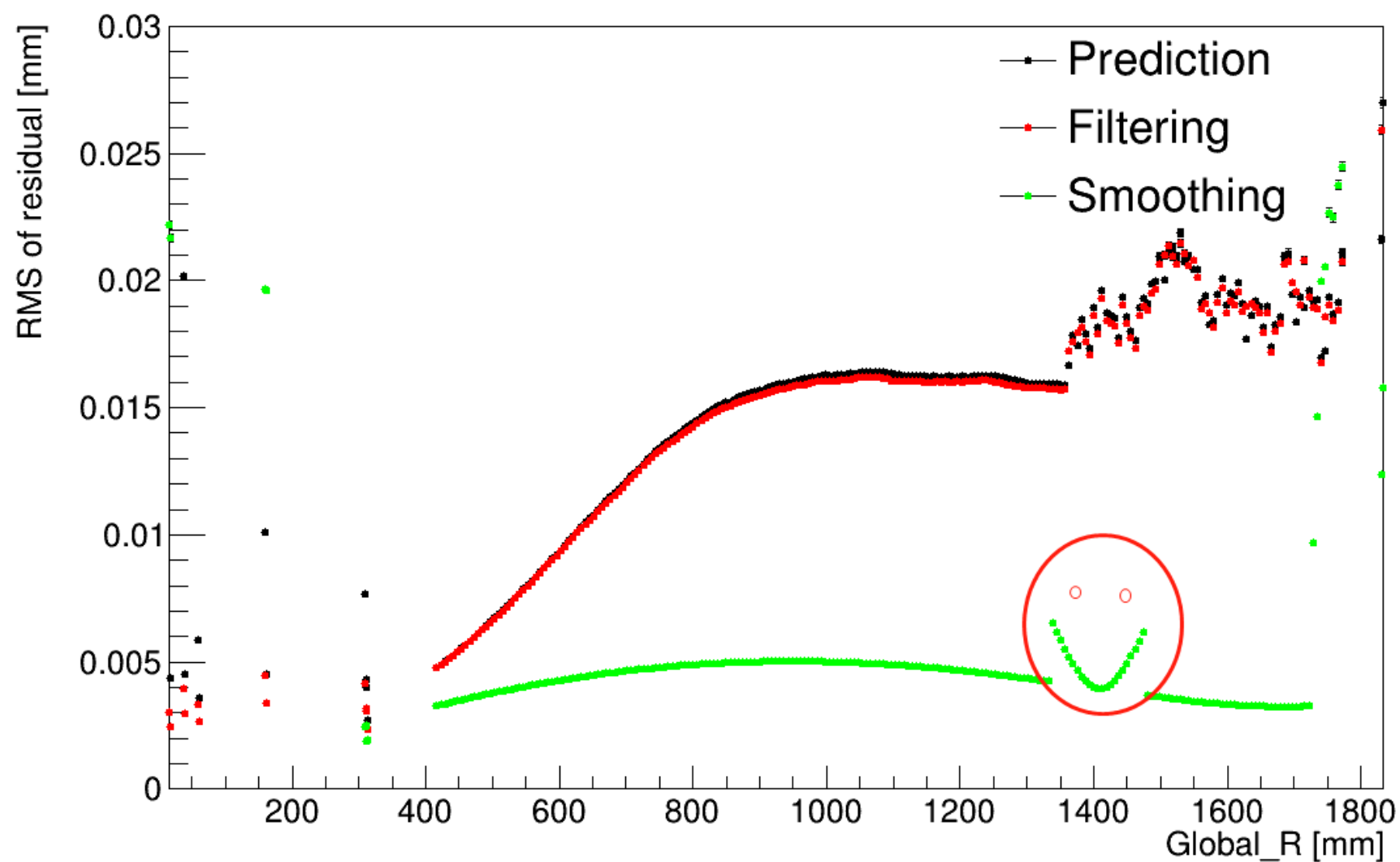
SIT1: res_prt+1
VTX3: res_prt+0.9

1+res_eLOC0_prt:t_ePHI {volume_id ==26}



结果总结

- 加上material 的情况
- Res vs r - gang
 - Understand the curve
 - Loc0, loc1 ... hop
- smt State - different detector. -jin
 - Phi 均匀/pull值合理
- Fit (back to 000). - shuiting
 - 顶点/动量分辨随p的变化曲线（注意加上material）
 - Phi 是否均匀
- 几何调整问题 yubo
 - (1) silicon geometry
 - (2) tpc geometry - ladder based
- Anything else
 - +- pi test - yebo



Layer1

