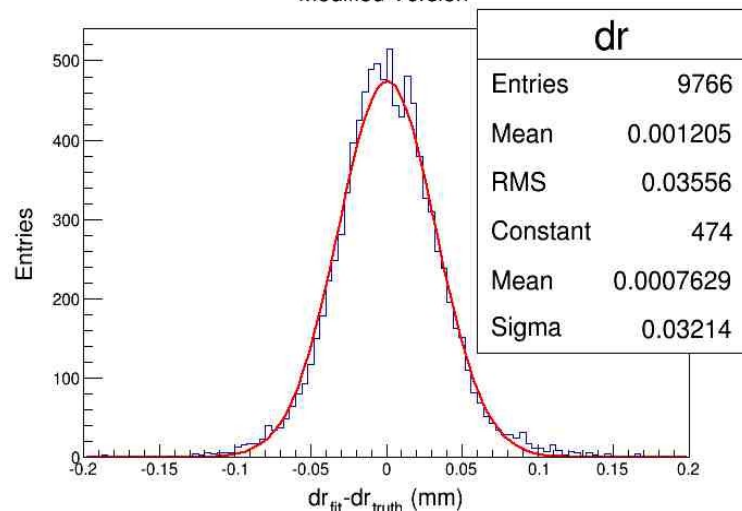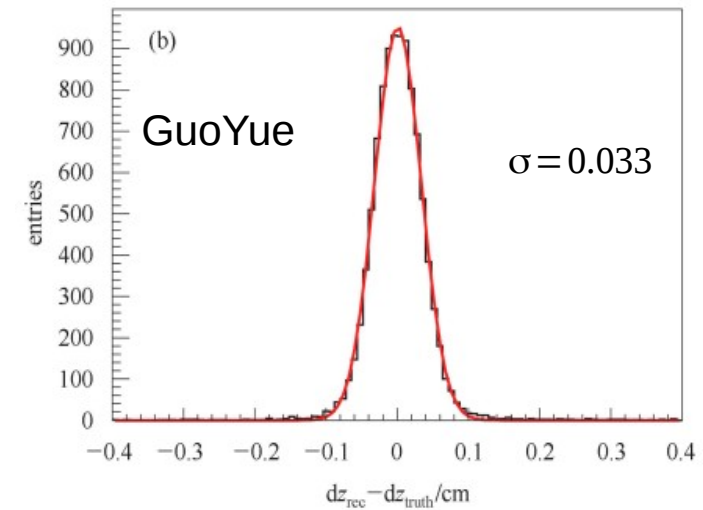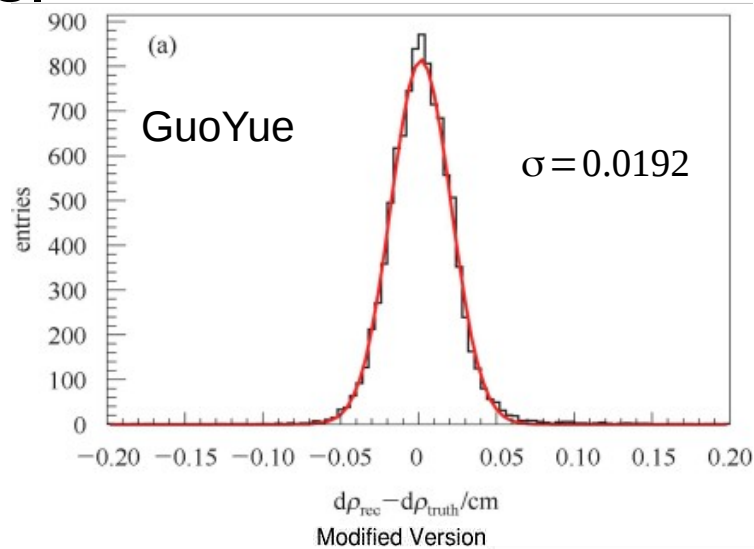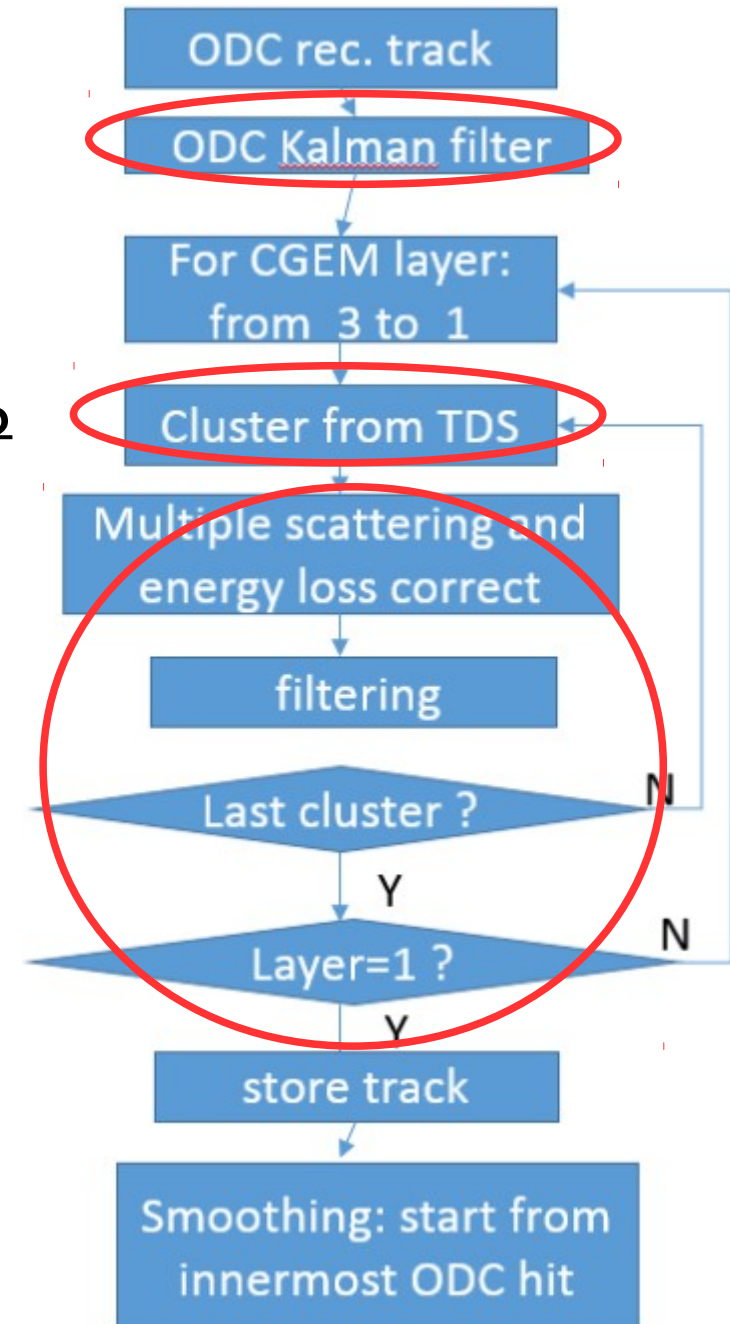# Kalman fitting

- The resolution of Kalman fitting result is much lager than Guo Yue's.
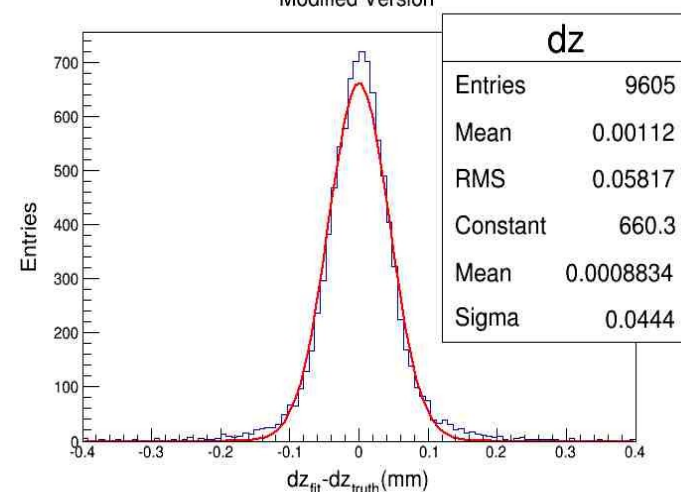
What makes difference

- ~~1. kalman fitting of ODC ?~~

- ~~2. reconstruction of CGEM cluster?~~

- ~~3. kalman fitting of CGEM?~~
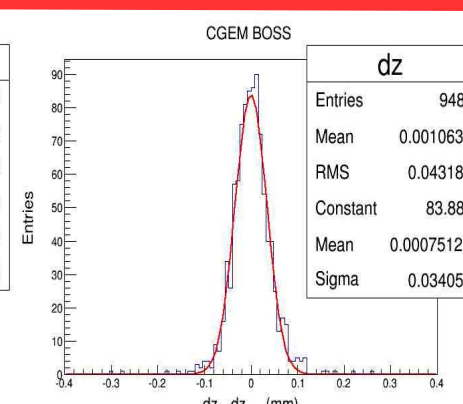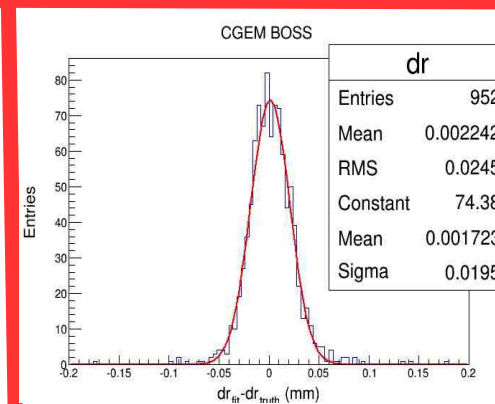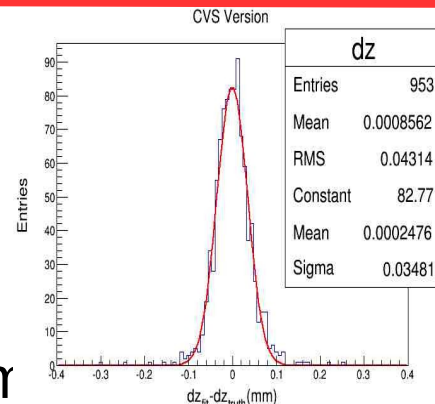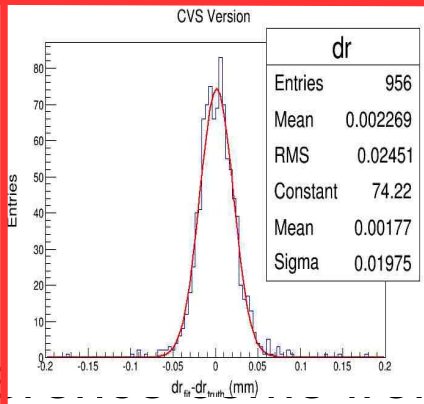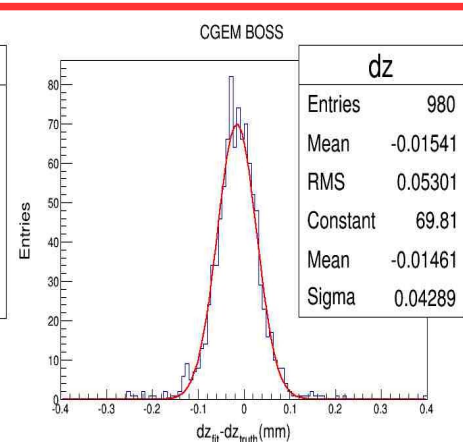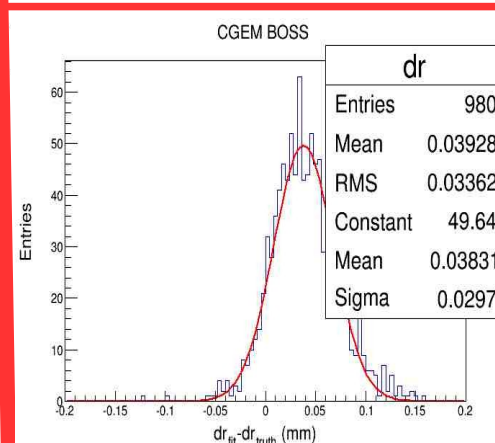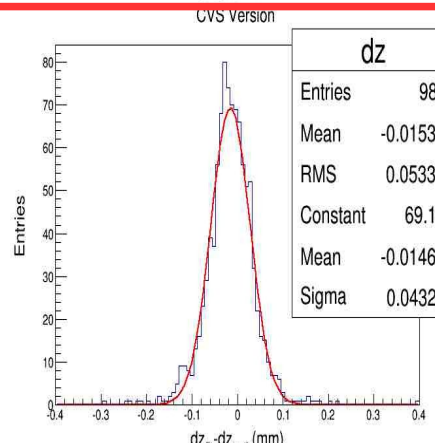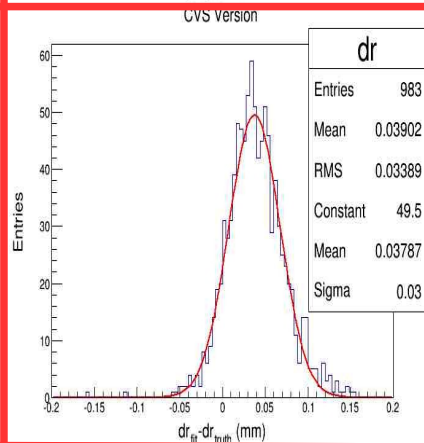
- 4. simulation?

模拟的检查

Setup Guo Yue's environment, and compare with mine

Reconstruction environment

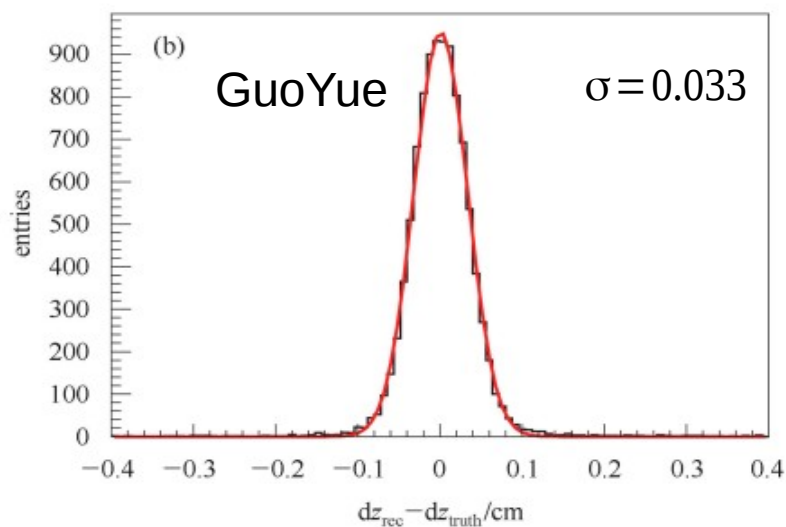mine | GuoYue

Simulation environment

mine

Guo Yue

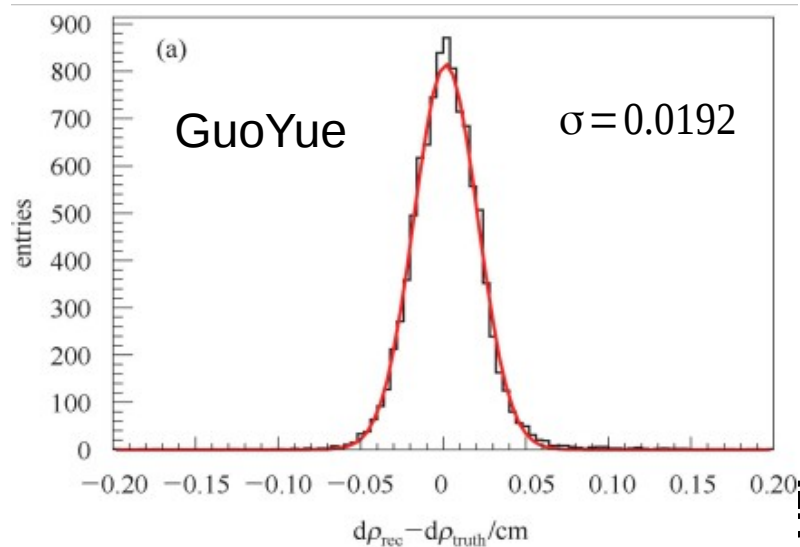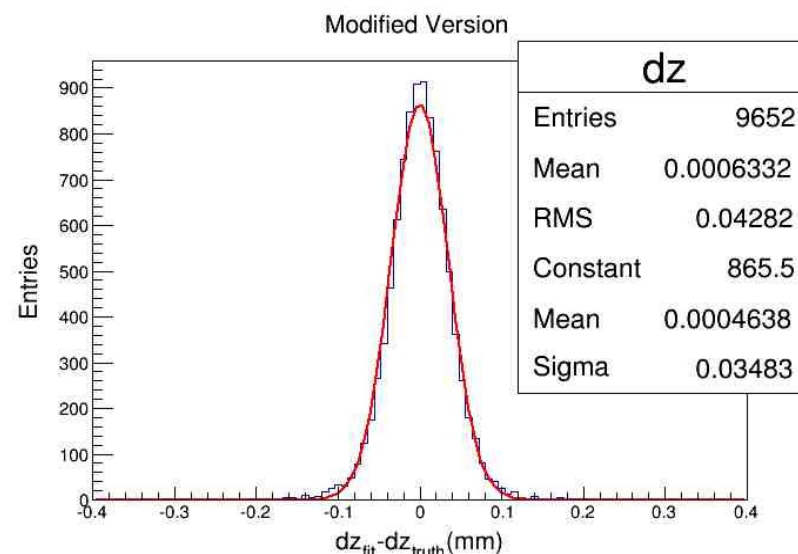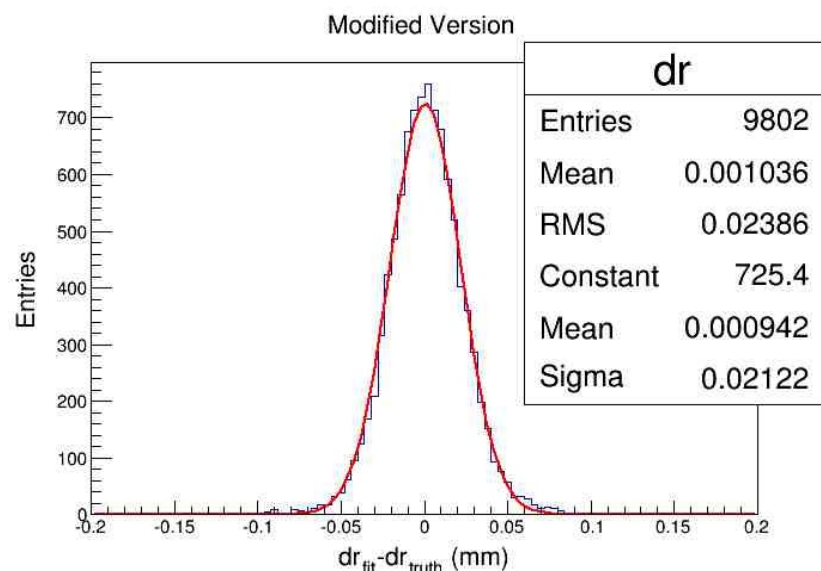- Diffe...

Located the Error

In file   Simulation / BOOST / CgemSim / CgemSim/BesCgemGeoParameter.hh

After correction

Modified Version

dr	
Entries	9802
Mean	0.001036
RMS	0.02386
Constant	725.4
Mean	0.000942
Sigma	0.02122

Modified Version

dz	
Entries	9652
Mean	0.0006332
RMS	0.04282
Constant	865.5
Mean	0.0004638
Sigma	0.03483

GuoYue $\sigma = 0.0192$

GuoYue $\sigma = 0.033$

Resolution of momentum