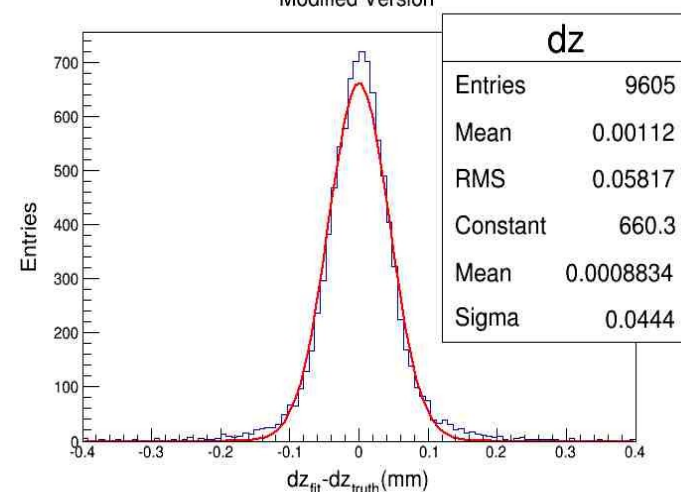
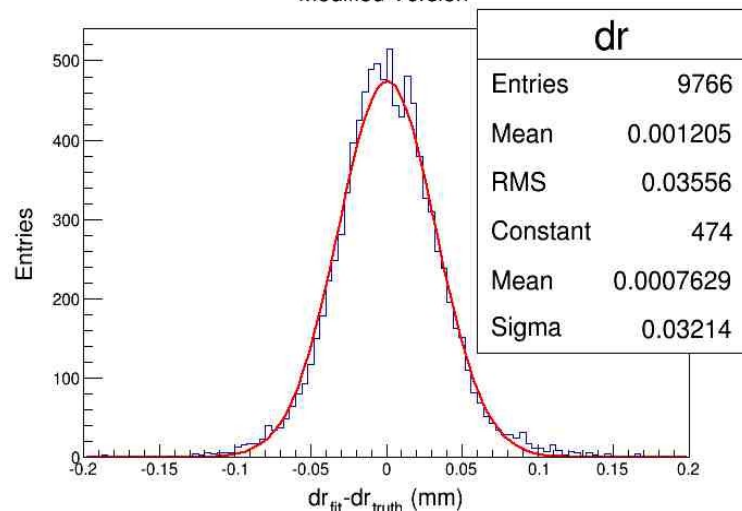
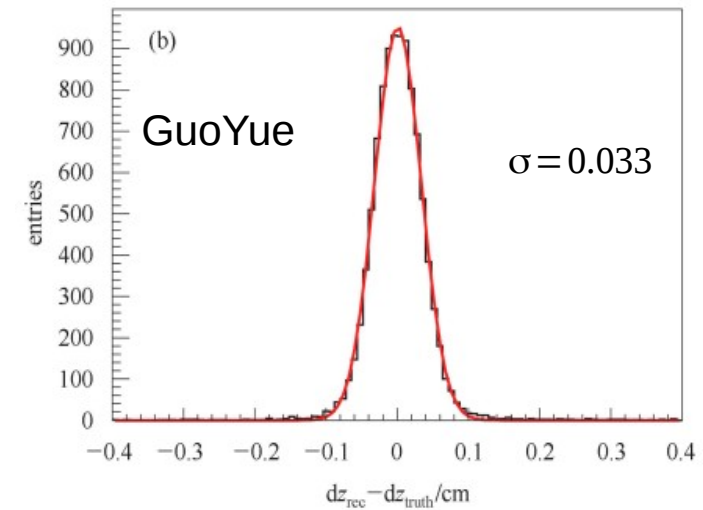
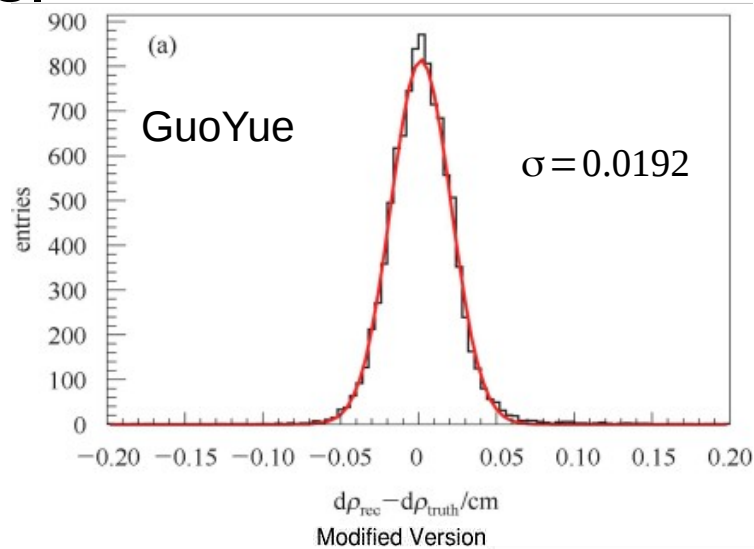


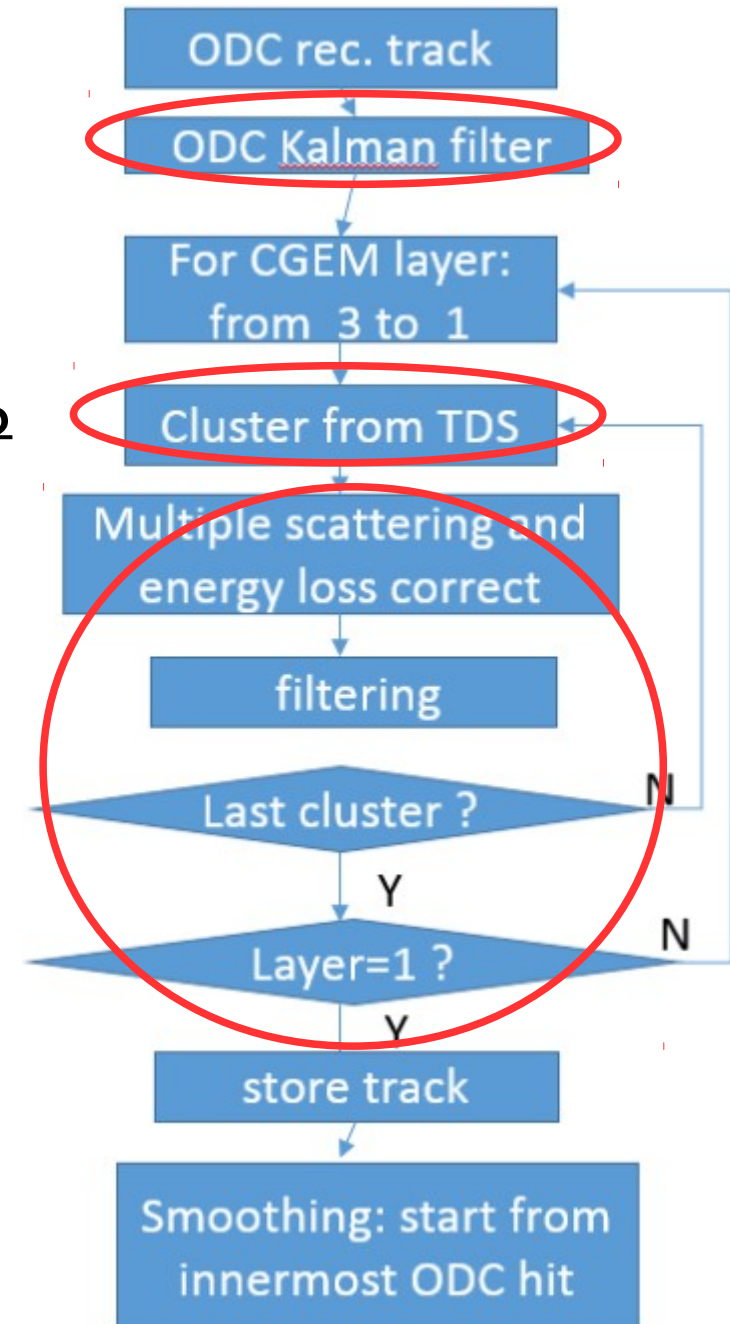
# Kalman fitting

- The resolution of Kalman fitting result is much larger than Guo Yue's.



# What makes difference

- ~~1. kalman fitting of ODC ?~~
- ~~2. reconstruction of CGEM cluster?~~
- ~~3. kalman fitting of CGEM?~~
- 4. simulation?



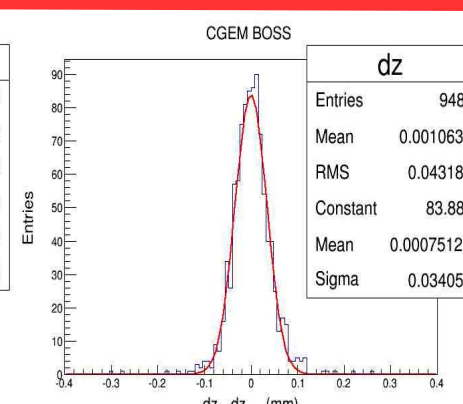
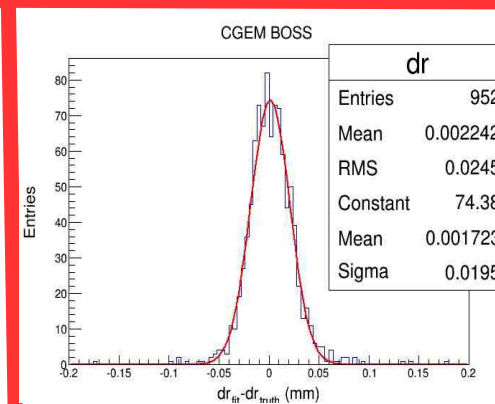
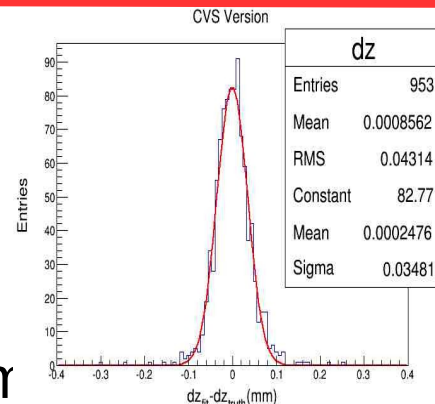
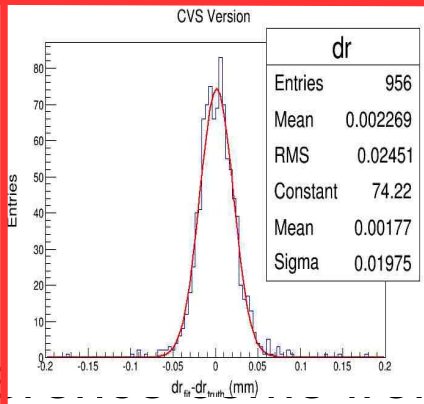
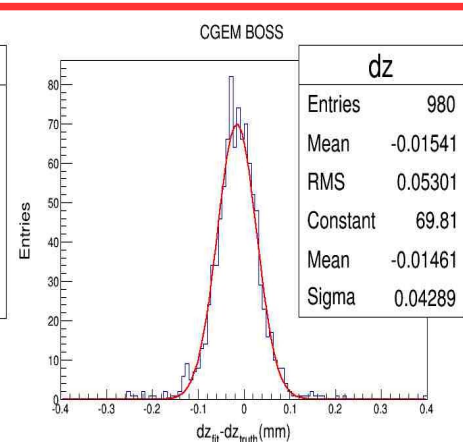
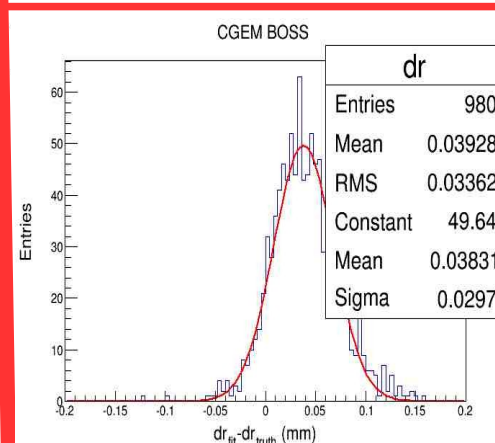
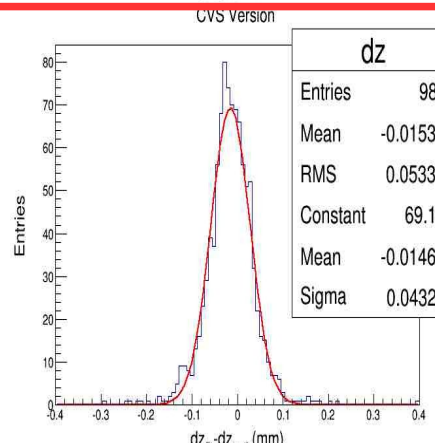
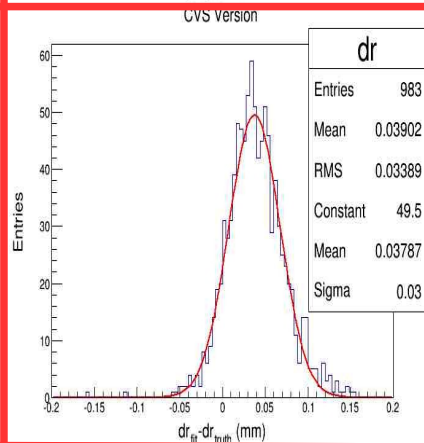
# 模拟的检查

Setup Guo Yue's environment, and compare with mine

## Reconstruction environment

mine

GuoYue



Simulation environment

Guo Yue

Difference

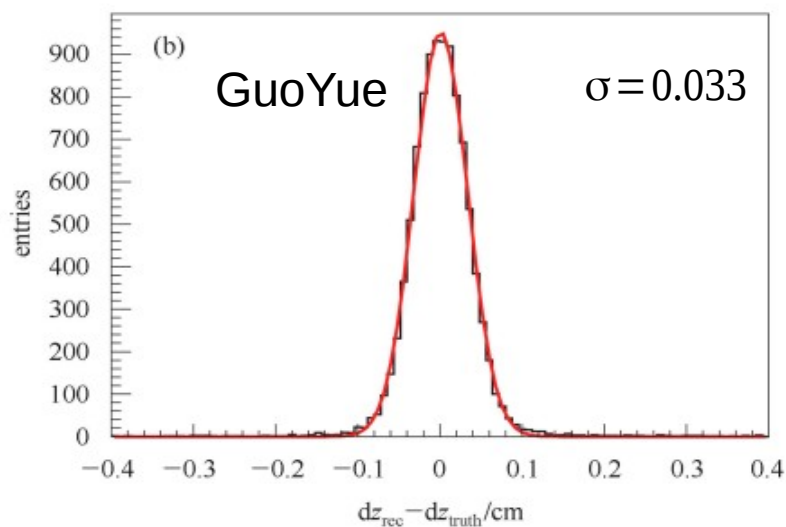
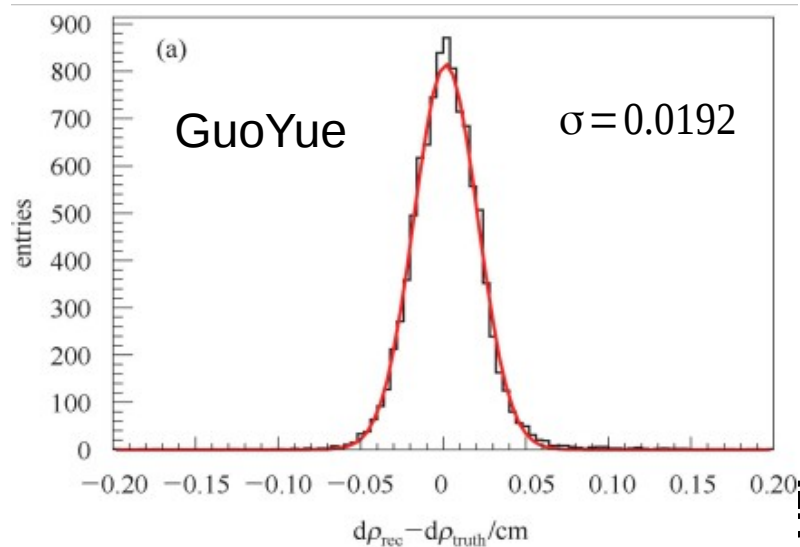
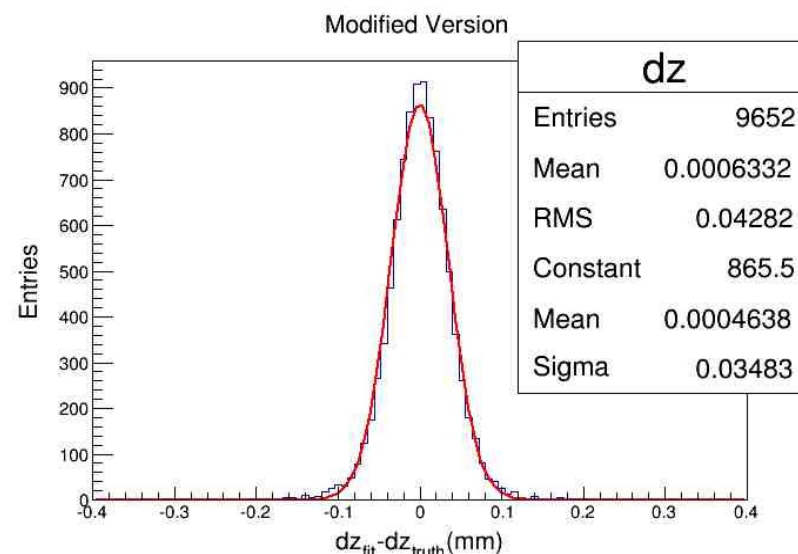
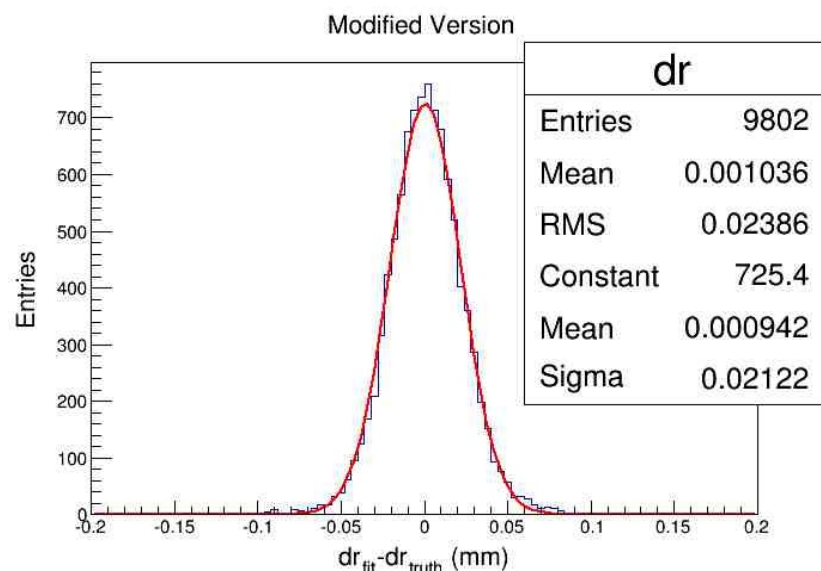
# Located the Error

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

```
43 class GemFoil
44 {
45     friend class CgemLayer;
46     friend class BesCgemGeoParameter;
47     public:
48     GemFoil(){};
49     ~GemFoil(){};
50
51     /* Get method of GemFoil */
52     int      GetIDOfGemFoil()          const {return  m_ID_GemFoil          ;};
53     double   GetInnerROfGemFoil()      const {return  m_R_i_GemFoil          ;};
54     double   GetOuterROfGemFoil()      const {return  m_R_o_GemFoil          ;};
55     double   GetInnerROfGemFoilCu1()   const {return  m_R_i_GemFoil_Cu1      ;};
56     double   GetOuterROfGemFoilCu1()   const {return  m_R_o_GemFoil_Cu2      ;};
57     double   GetInnerROfGemFoilKapton() const {return  m_R_i_GemFoil_Kapton    ;};
58     double   GetOuterROfGemFoilKapton() const {return  m_R_o_GemFoil_Kapton    ;};
59     double   GetInnerROfGemFoilCu2()   const {return  m_R_i_GemFoil_Cu2      ;};
60     double   GetOuterROfGemFoilCu2()   const {return  m_R_o_GemFoil_Cu2      ;};
```

```
43 class GemFoil
44 {
45     friend class CgemLayer;
46     friend class BesCgemGeoParameter;
47     public:
48     GemFoil(){};
49     ~GemFoil(){};
50
51     /* Get method of GemFoil */
52     int      GetIDOfGemFoil()          const {return  m_ID_GemFoil          ;};
53     double   GetInnerROfGemFoil()      const {return  m_R_i_GemFoil          ;};
54     double   GetOuterROfGemFoil()      const {return  m_R_o_GemFoil          ;};
55     double   GetInnerROfGemFoilCu1()   const {return  m_R_i_GemFoil_Cu1      ;};
56     double   GetOuterROfGemFoilCu1()   const {return  m_R_o_GemFoil_Cu1      ;};
57     double   GetInnerROfGemFoilKapton() const {return  m_R_i_GemFoil_Kapton    ;};
58     double   GetOuterROfGemFoilKapton() const {return  m_R_o_GemFoil_Kapton    ;};
59     double   GetInnerROfGemFoilCu2()   const {return  m_R_i_GemFoil_Cu2      ;};
60     double   GetOuterROfGemFoilCu2()   const {return  m_R_o_GemFoil_Cu2      ;};
```

# After correction



郭王

# Resolution of momentum

