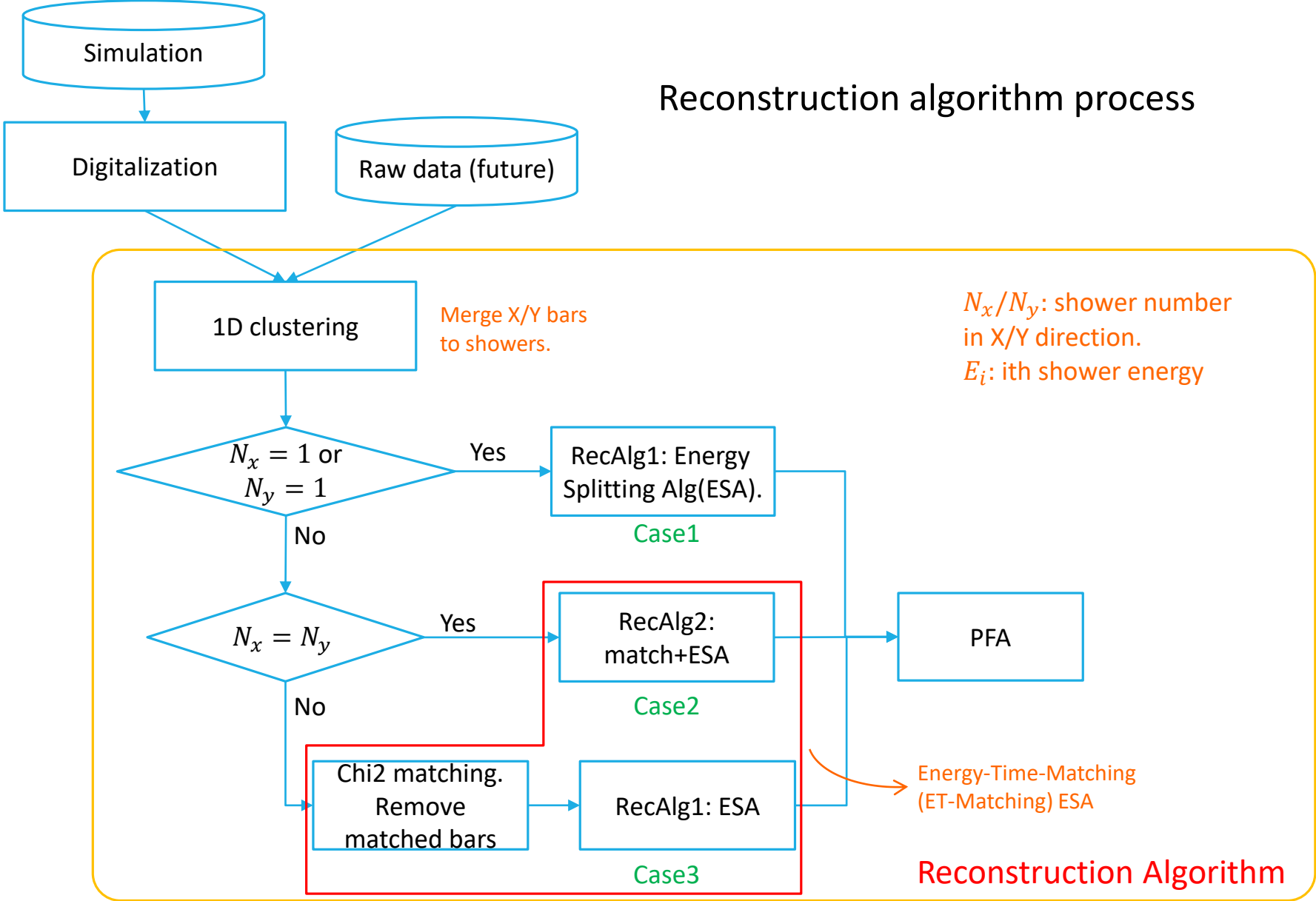


# DigiHit reconstruction

---

# Reconstruction algorithm process

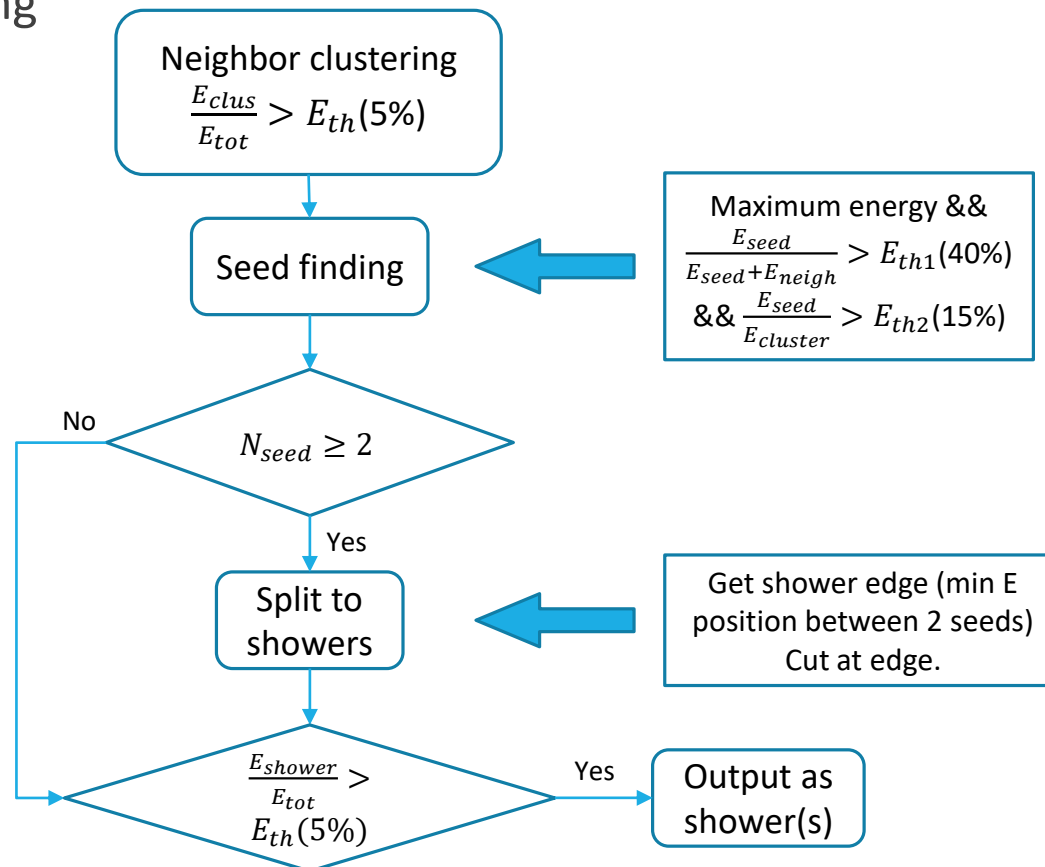


```

/cefs/higgs/guofy/cepcsoft/CEPCSW_dev/CEPCSW/Digitisers/CRDEcalDigi/src
-bash-4.2$ ls
CRDEcalDigiAlg.cpp  CRDEcalDigiEDM.h  CRDEcalDigiHitCreator.h  CRDEcalPreRecAlg.h  DigiHitsWithPos.h
CRDEcalDigiAlg.h   CRDEcalDigiHitCreator.cpp  CRDEcalPreRecAlg.cpp  DigiHitsWithEnergy.h  DigiHitsWithTime.h
    
```

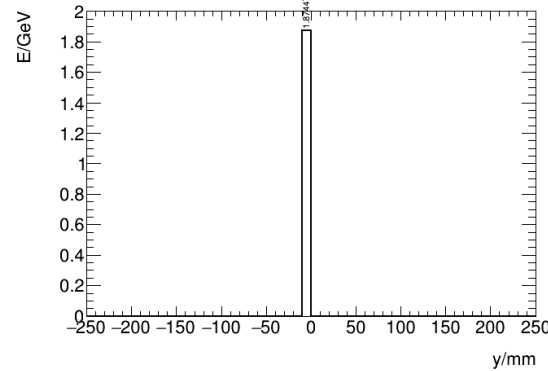
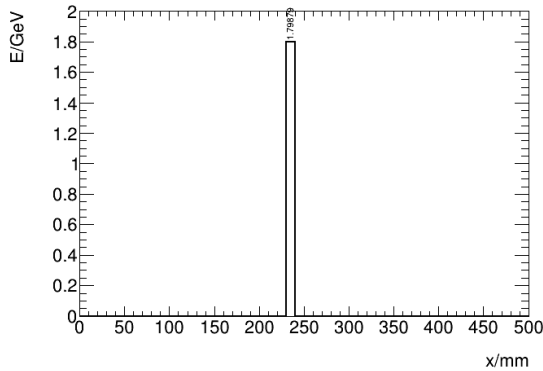
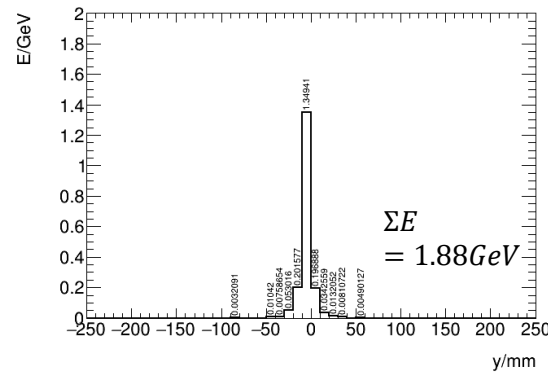
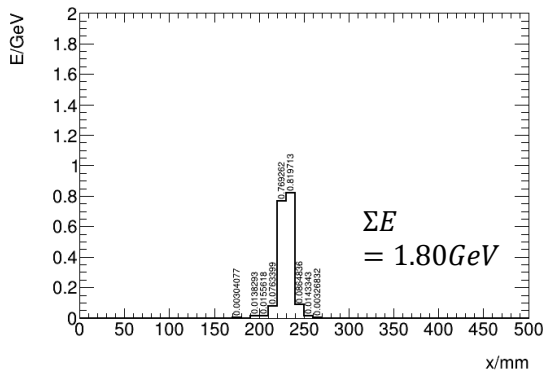
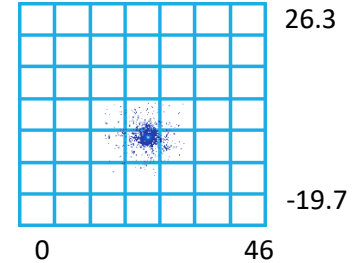
# Reconstruction algorithm

## 1D clustering



# Reconstruction algorithm

1D clustering: single photon 20GeV, (0,0,23)cm in global ECal.



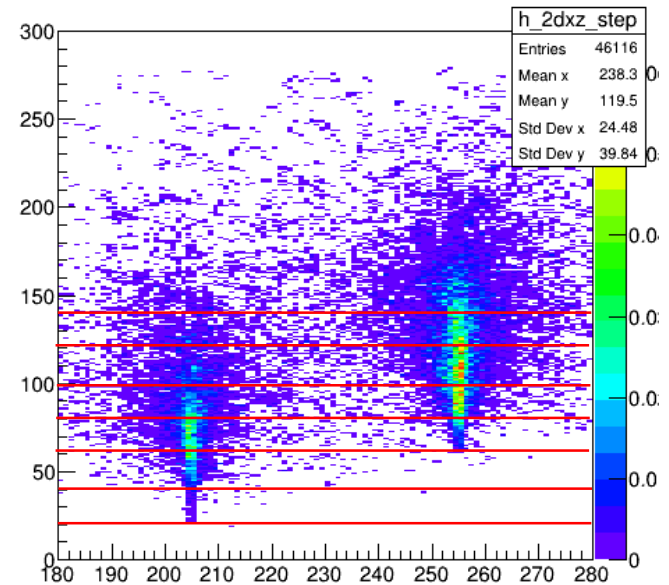
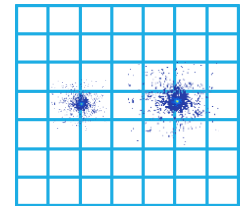
#block	NclusterX	NshowerX	NclusterY	NshowerY
0	1	1	0	0
1	1	1	1	1
2	1	1	2	1
3	3	1	1	1
4	1	1	2	1
5	2	1	3	1
6	2	1	3	1
7	1	1	4	1
8	1	1	2	1
9	2	1	2	1
10	2	1	2	2
11	3	1	2	2

# Reconstruction algorithm

1D clustering: 2 photon:

- (0,0,205)mm, E=10GeV    (0,0,255)mm, E=20GeV

#block	NclusterX	NshowerX	NclusterY	NshowerY
0	0	0	1	1
1	0	0	1	1
2	0	0	1	1
3	1	1	2	1
4	3	1	1	1
5	1	1	2	1
6	3	2	3	1
7	1	2	2	1
8	2	1	2	1
9	1	1	2	1
10	1	1	2	1
11	3	1	5	1
12	1	1	1	1
13	3	1	3	1
14	3	2	2	1
15	4	2	3	2

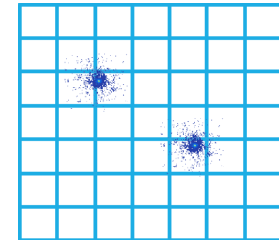




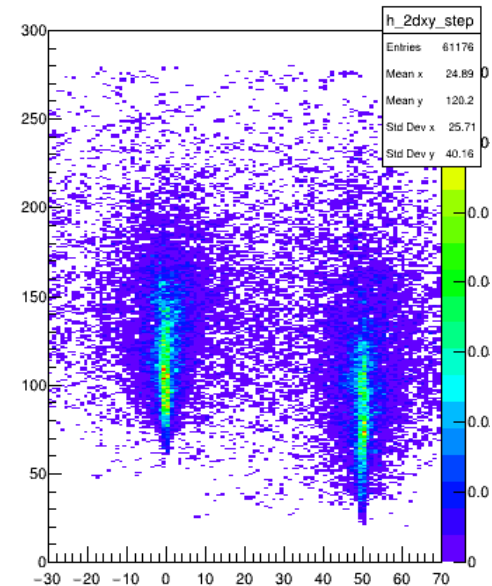
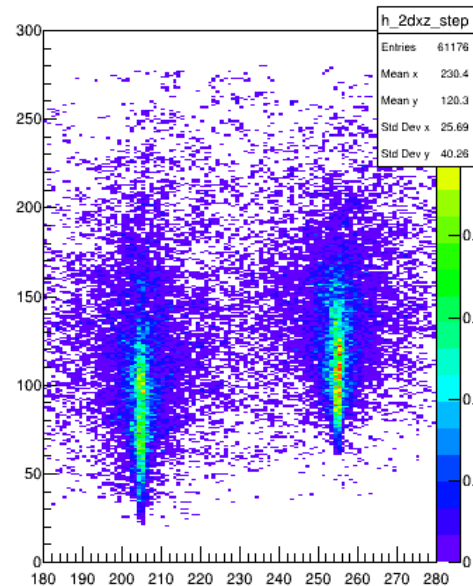
# Reconstruction algorithm

1D clustering: 2 photon:

- (0,50,205)mm, E=20GeV      (0,0,255)mm, E=20GeV



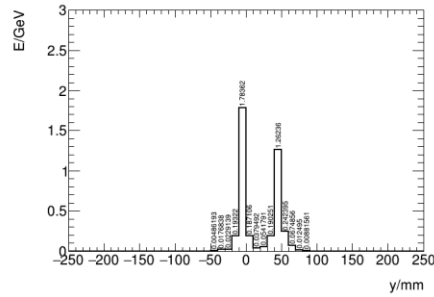
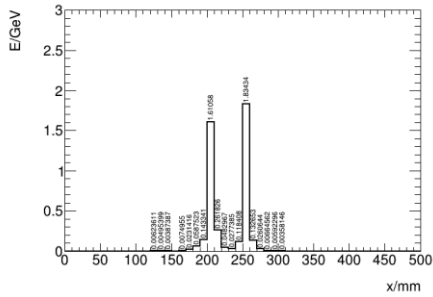
#block	NclusterX	NshowerX	NclusterY	NshowerY
0	0	0	1	1
1	1	1	2	1
2	4	1	2	1
3	1	1	4	2
4	2	2	3	2
5	2	2	1	2
6	3	2	3	2
7	1	1	2	2
8	1	2	1	2
9	1	2	4	1
10	1	2	1	1
11	2	2	2	1
12	4	4	2	1
13	3	2	3	4



# Reconstruction algorithm

1D clustering: 2 photon:

#block 5



#block 7

