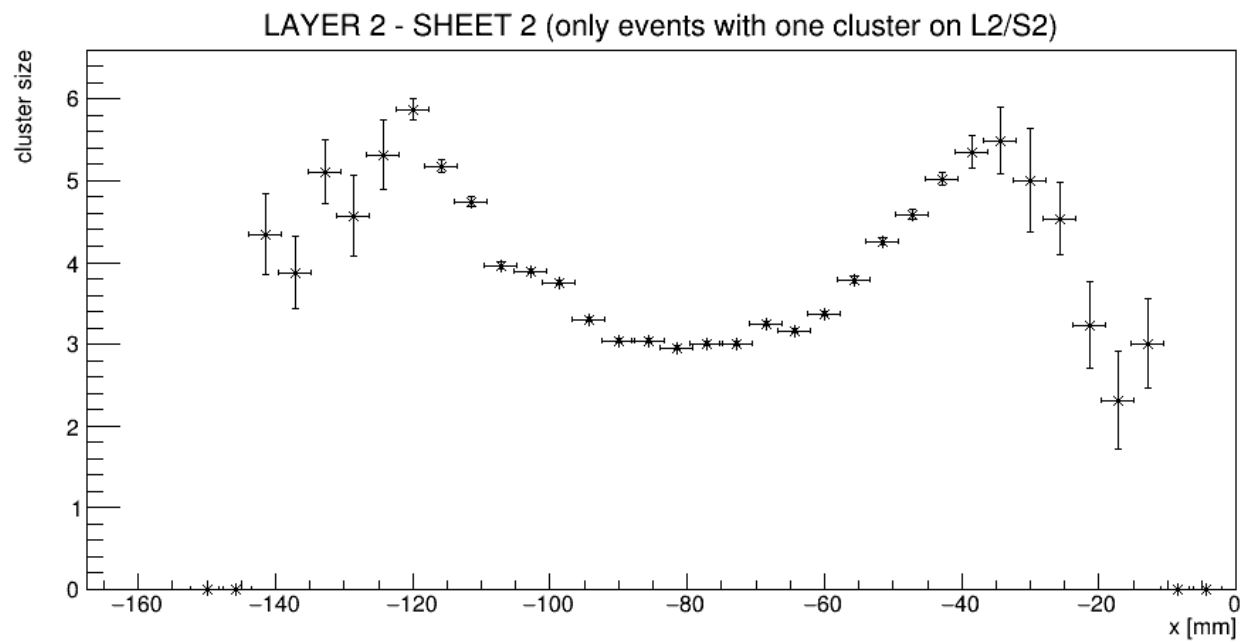
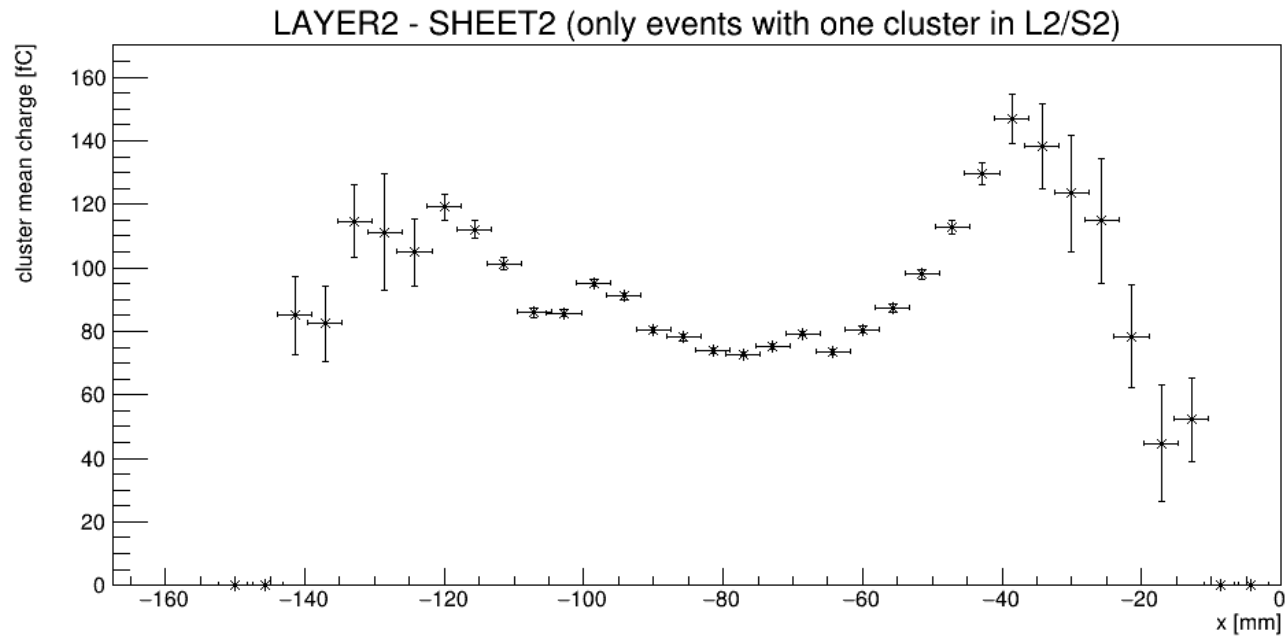


# **RUN 4 in CgemBoss**

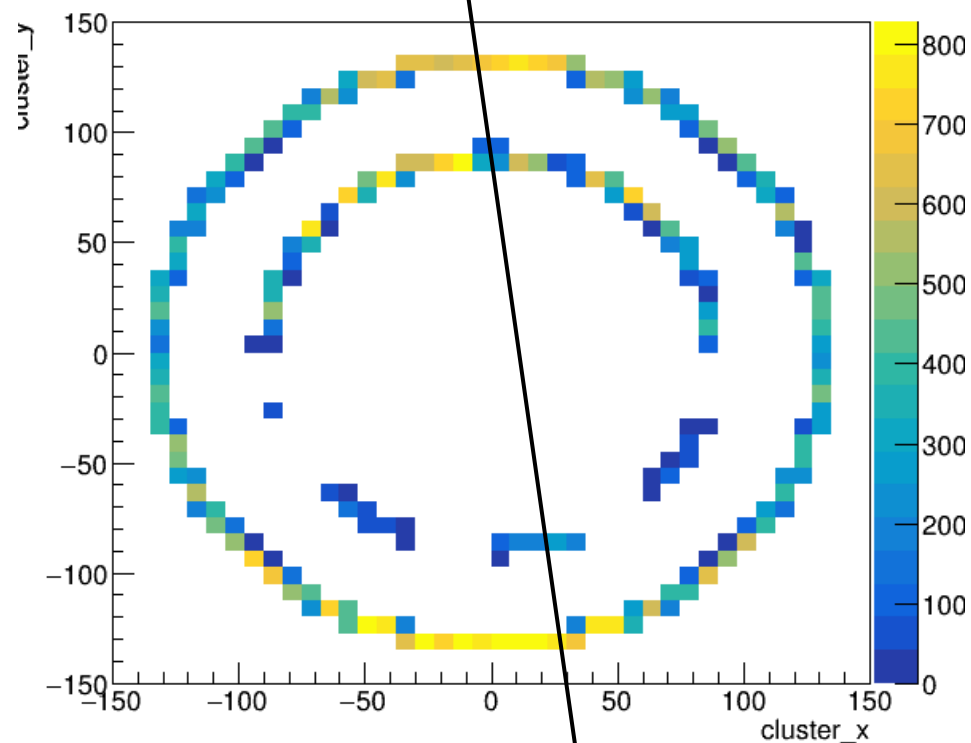
**vidyo, 2019-12-18**

# MEAN CHARGE & CL. SIZE of 1D clusters – view x

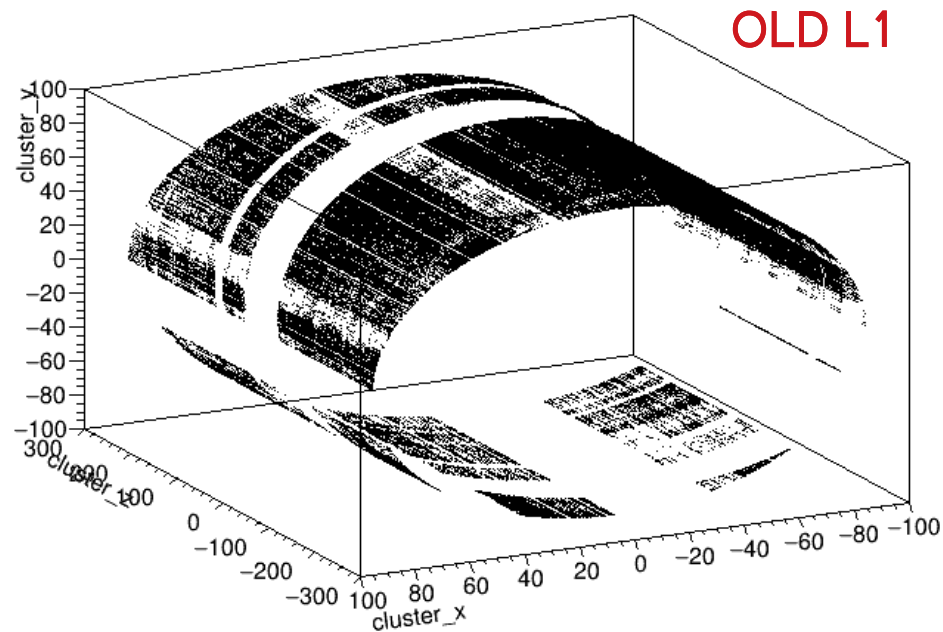


plot ALL the combinations of cluster X and V  
→ combinatorial and no selection

xy view - L1+L2

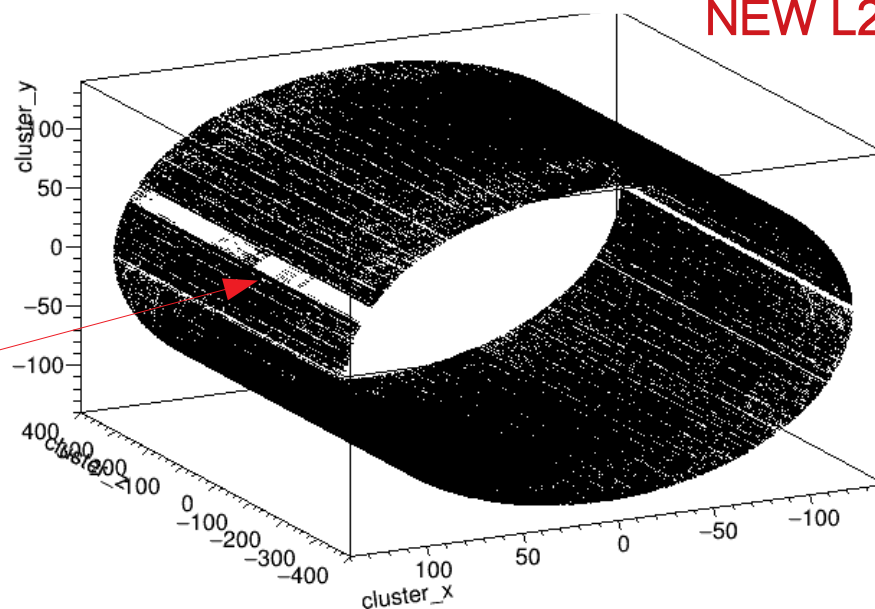


3D view - L1



OLD L1

3D view - L2



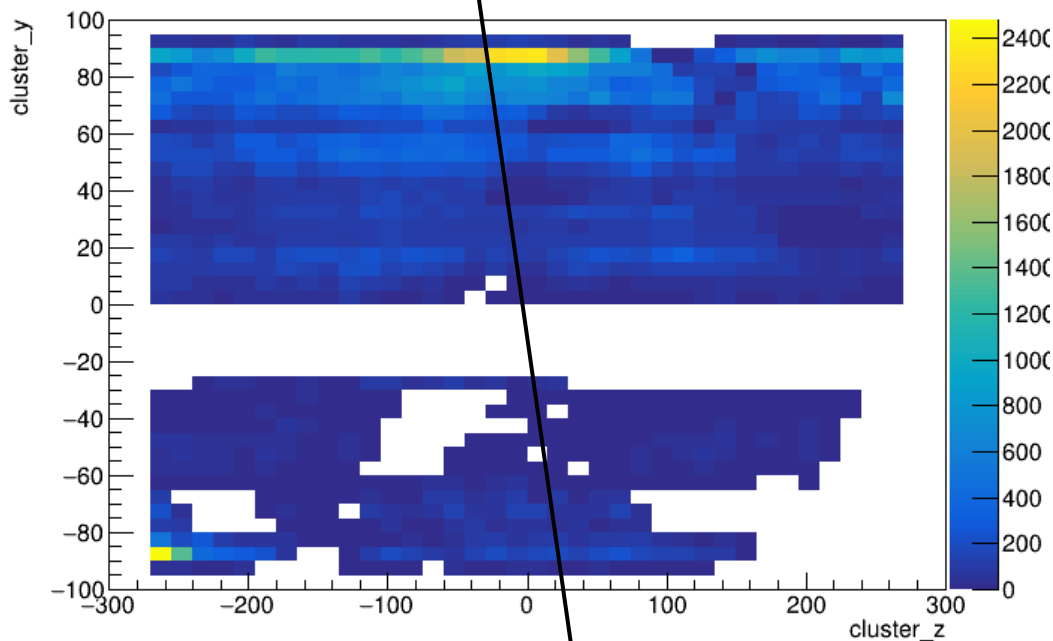
NEW L2

Dead strips

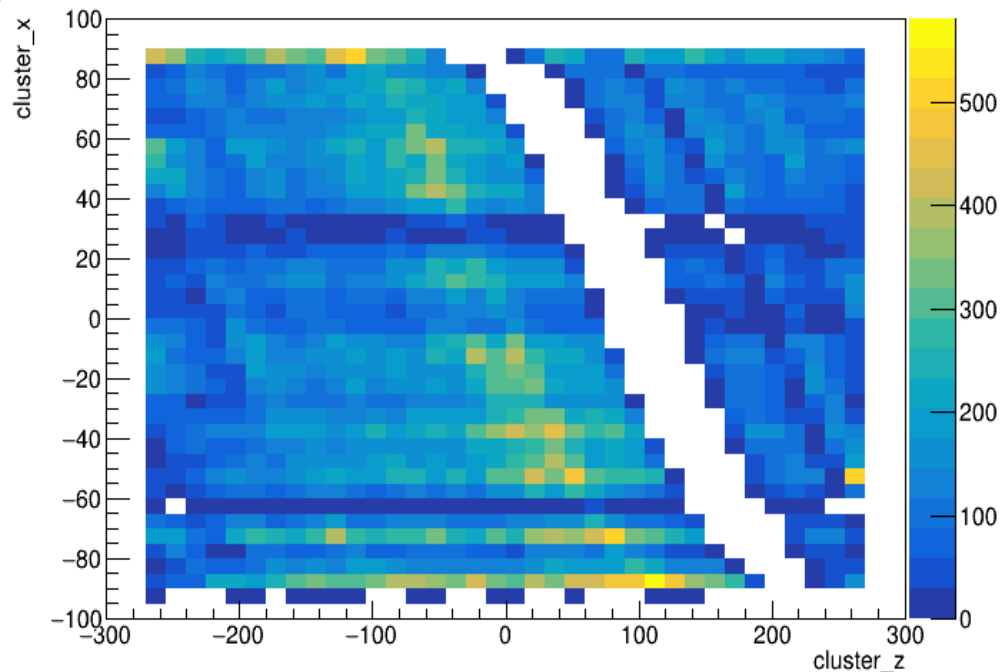
plot ALL the combinations of cluster X and V  
→ combinatorial and no selection

LAYER 1

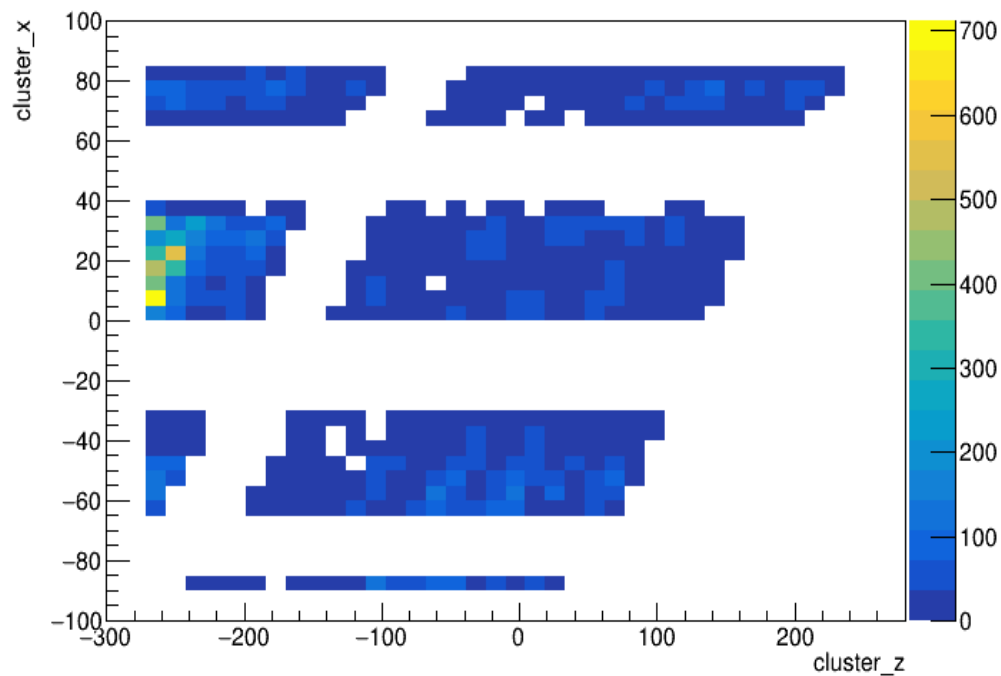
y vs z - L1



x vs z – L1 TOP



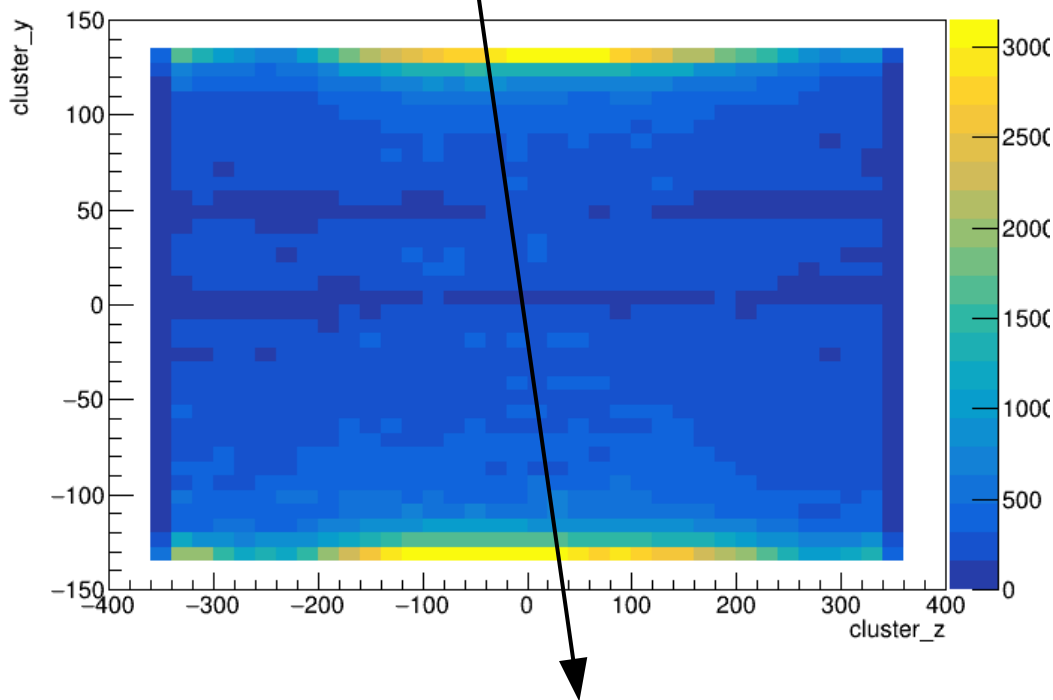
x vs z – L1 BOTTOM



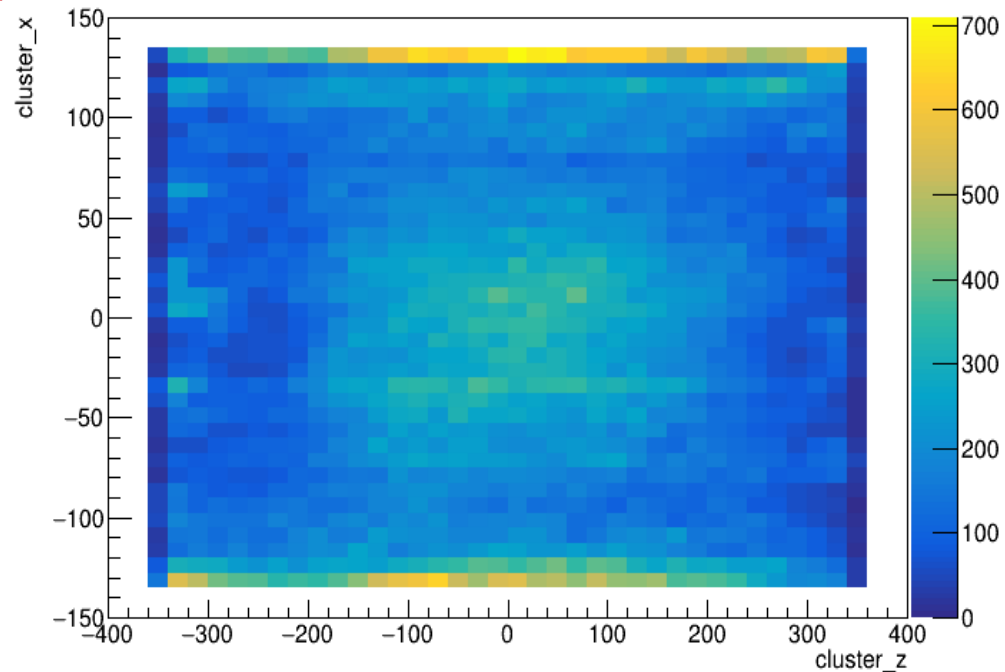
plot ALL the combinations of cluster X and V  
→ combinatorial and no selection

LAYER 2

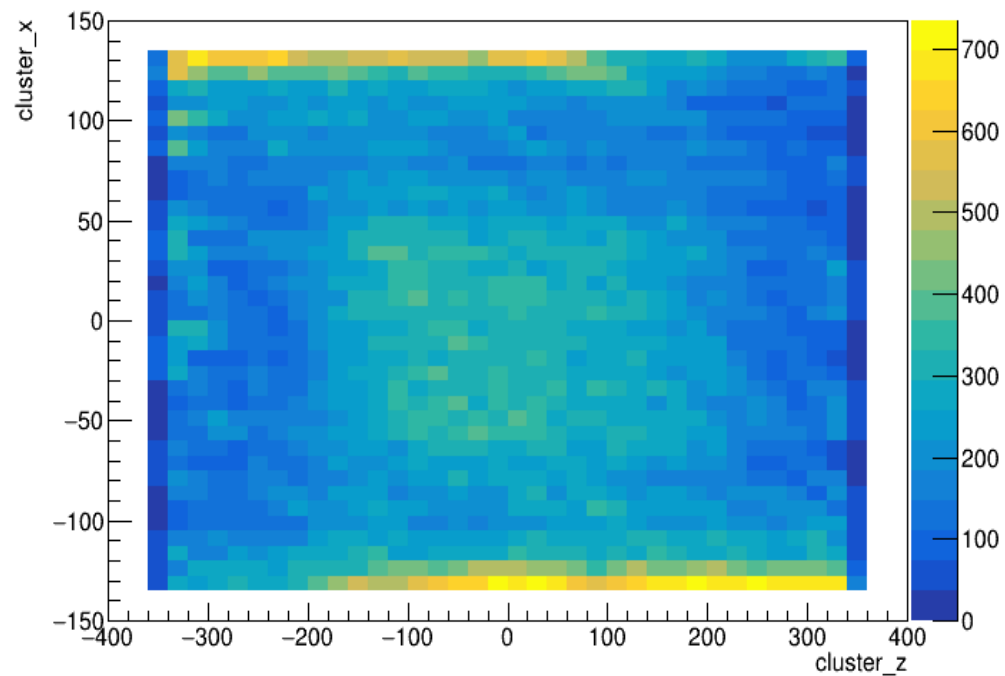
y vs z - L2



x vs z - L2 TOP



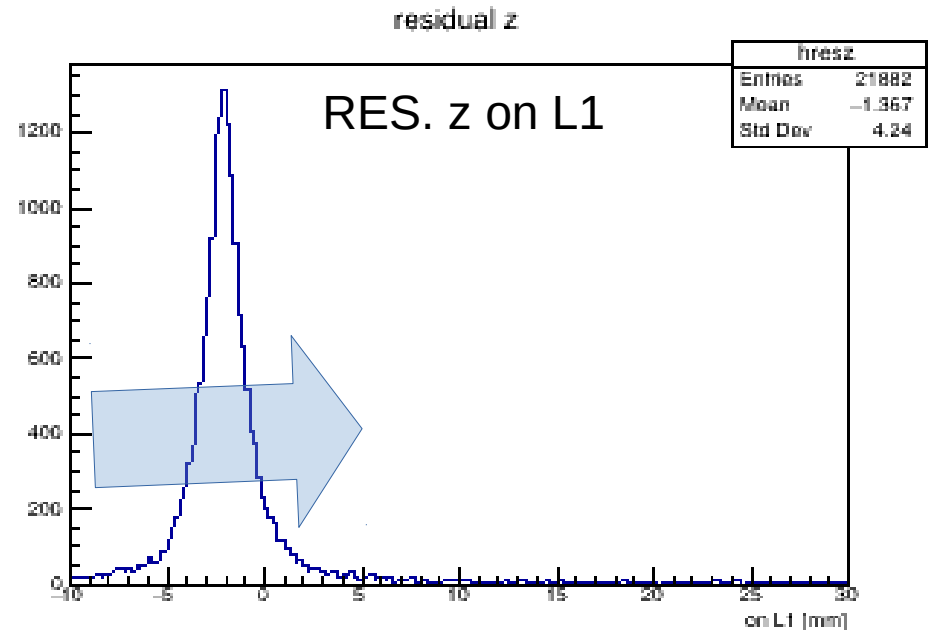
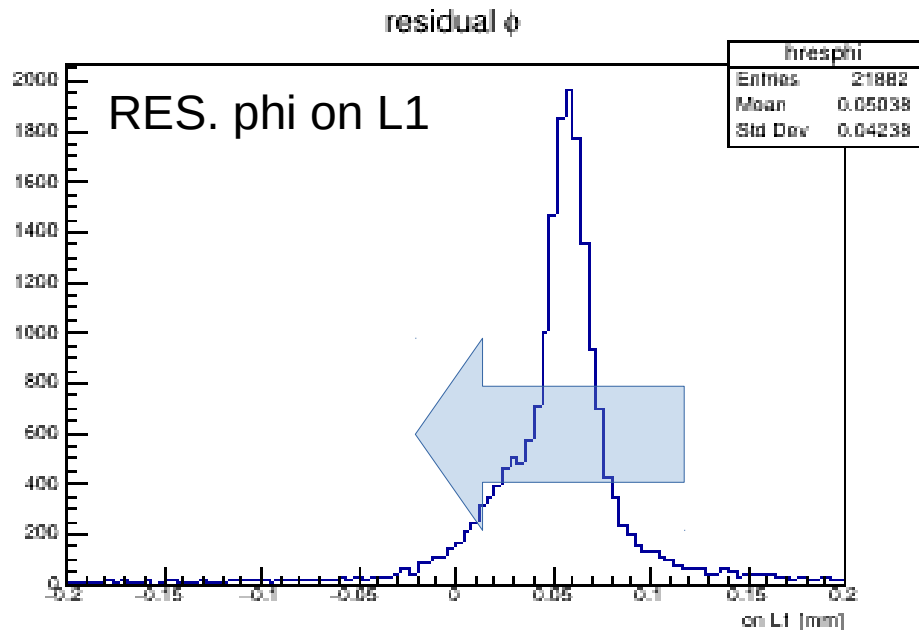
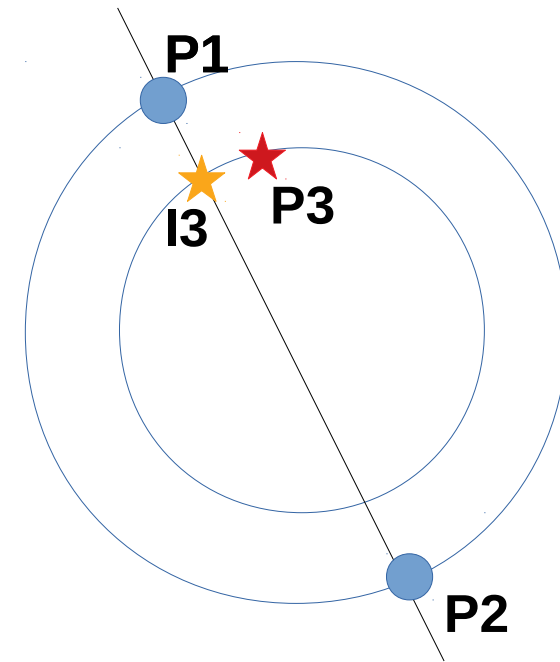
x vs z - L2 BOTTOM



# RESIDUAL DISTRIBUTIONS of 2D clusters

Select events:

- at least one cluster on L1\_S1 and on L2\_S1 and on L2\_S2
- no selection on cluster size
- no selection on total cluster charge
- Trace the 3D line between points **P1** and **P2** on L2 top (S2) and bottom (S1)
  - Find the point of intersection **I3** with L1 →
  - Residuals in: phi and z
- Find the shift in phi and z → *ROUGH ALIGNMENT*



# RESIDUAL DISTRIBUTIONS on LAYER2, TOP after alignment

