



# SPD QA

State of the art

Updates (-> AMORE release to come soon)



# Online monitoring histos



## 1. AMORE

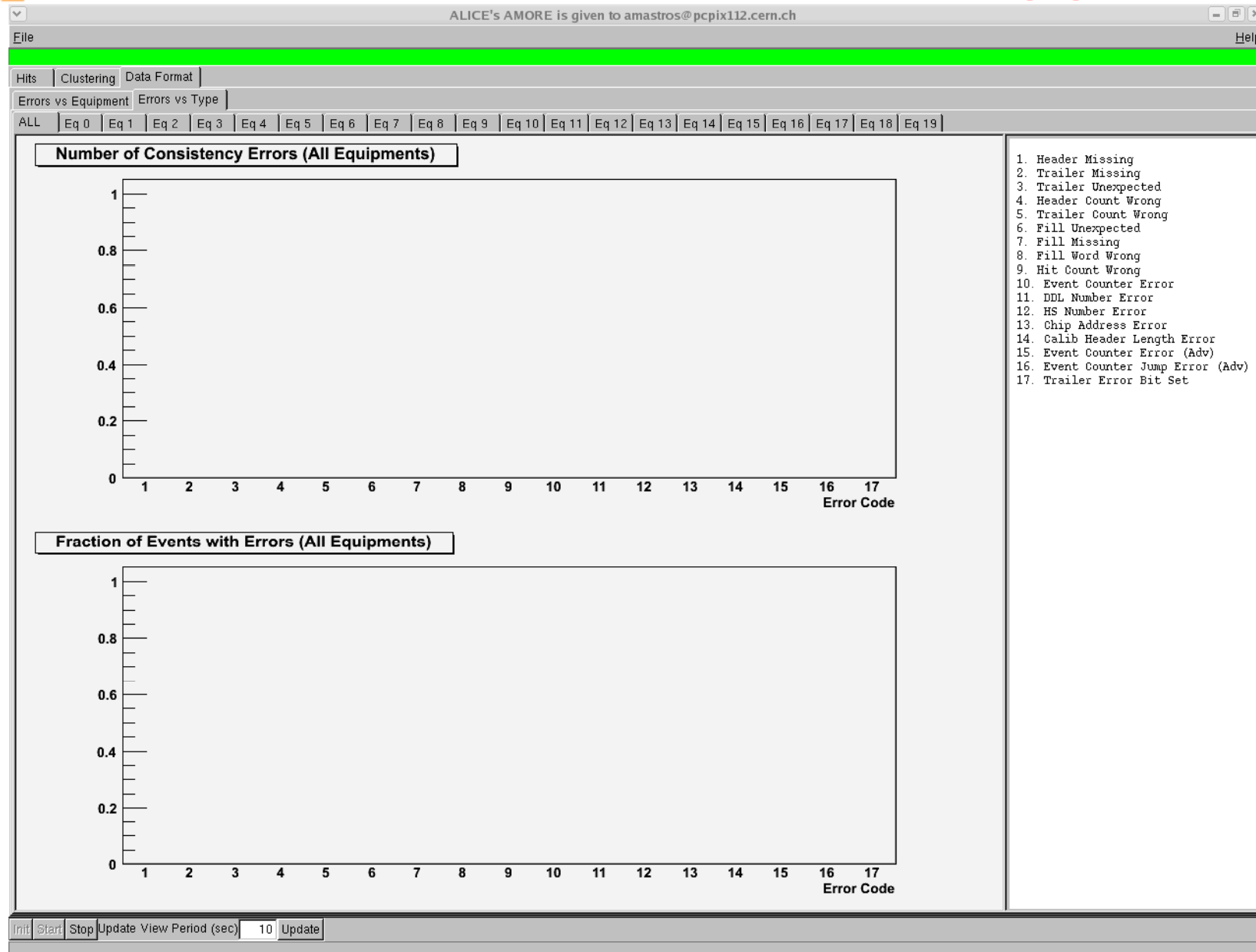
- Data from  
/alice/data/2008/LHC08c/0000/raw/08000057409017.10.root  
(intermediate multiplicity)
- Data Format
- Hits
- Clusters

## 2. RAWs from Offline QA (*amoreQA module*)

- Data Format

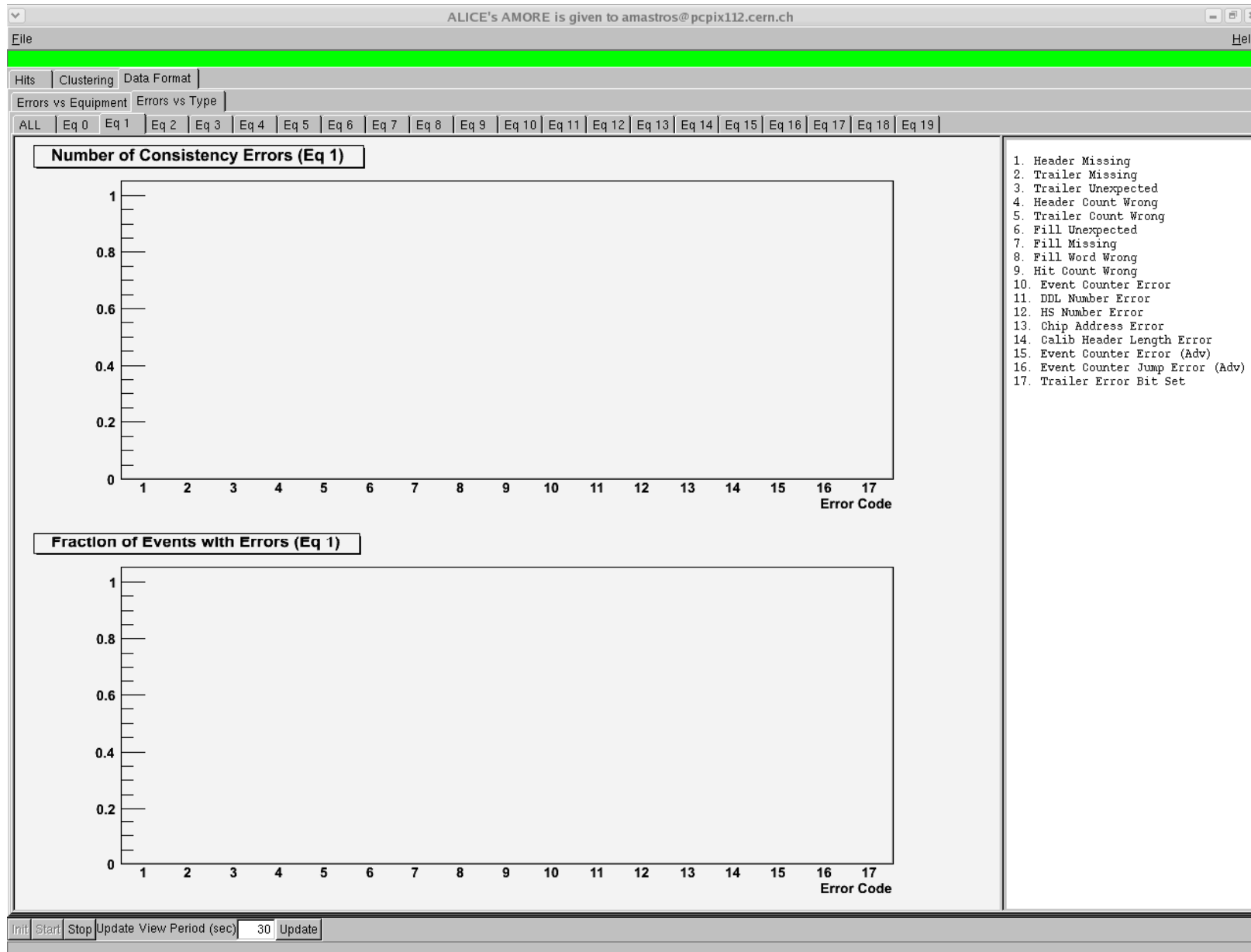


# 1) AMORE mode : Error Type



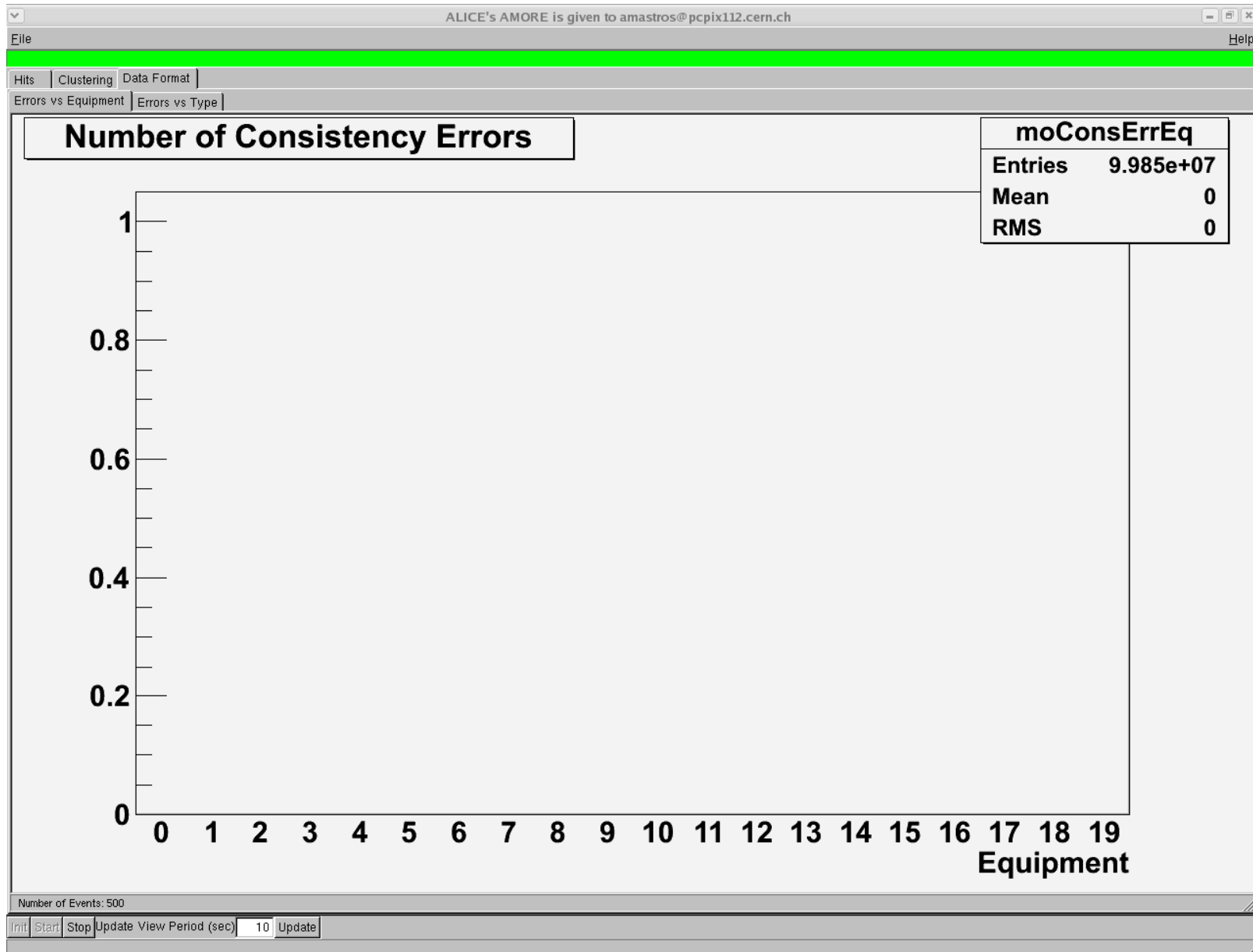


# 1) AMORE mode : **Error Type**



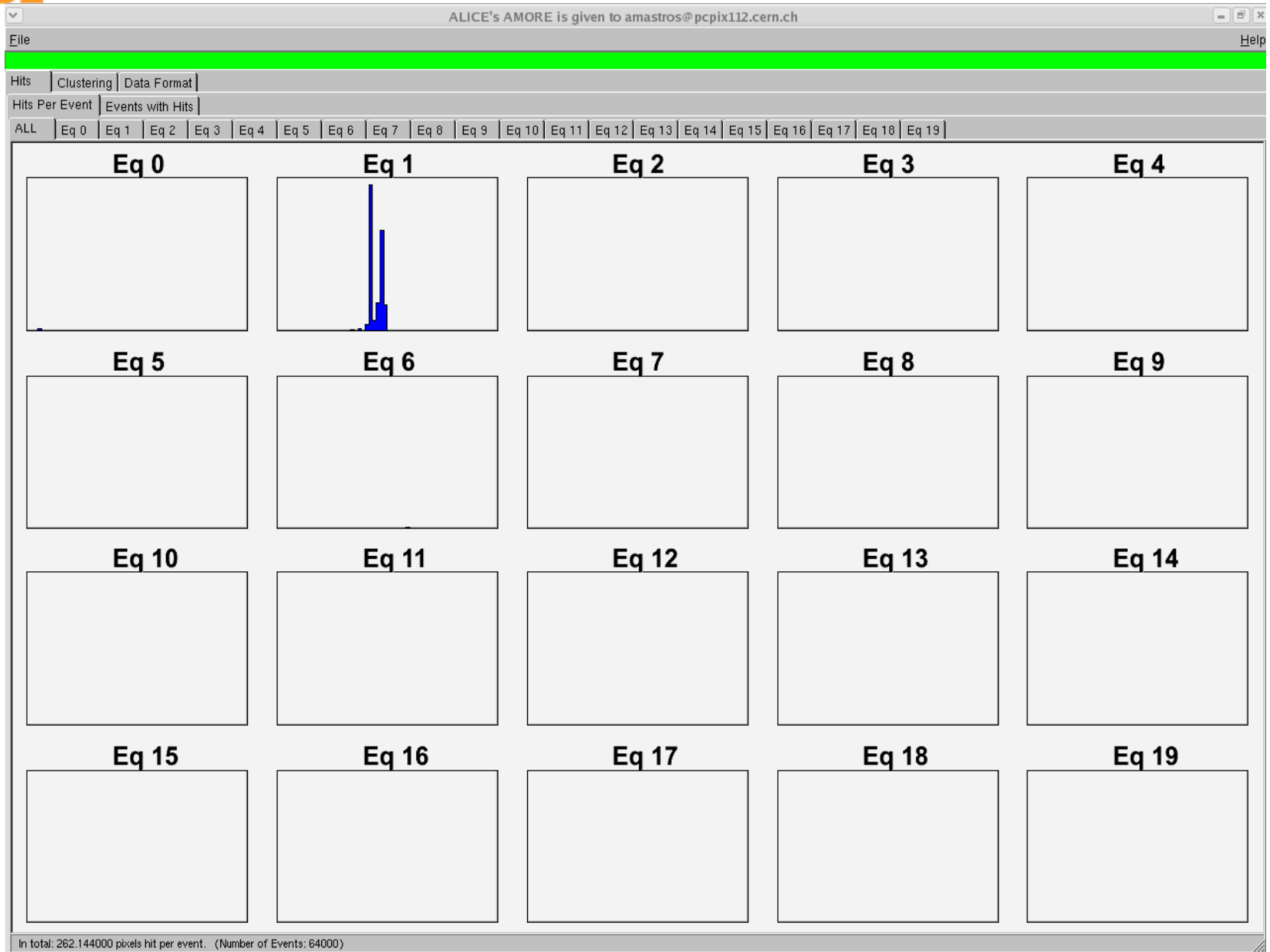


# 1) AMORE mode : **Error in Eq**



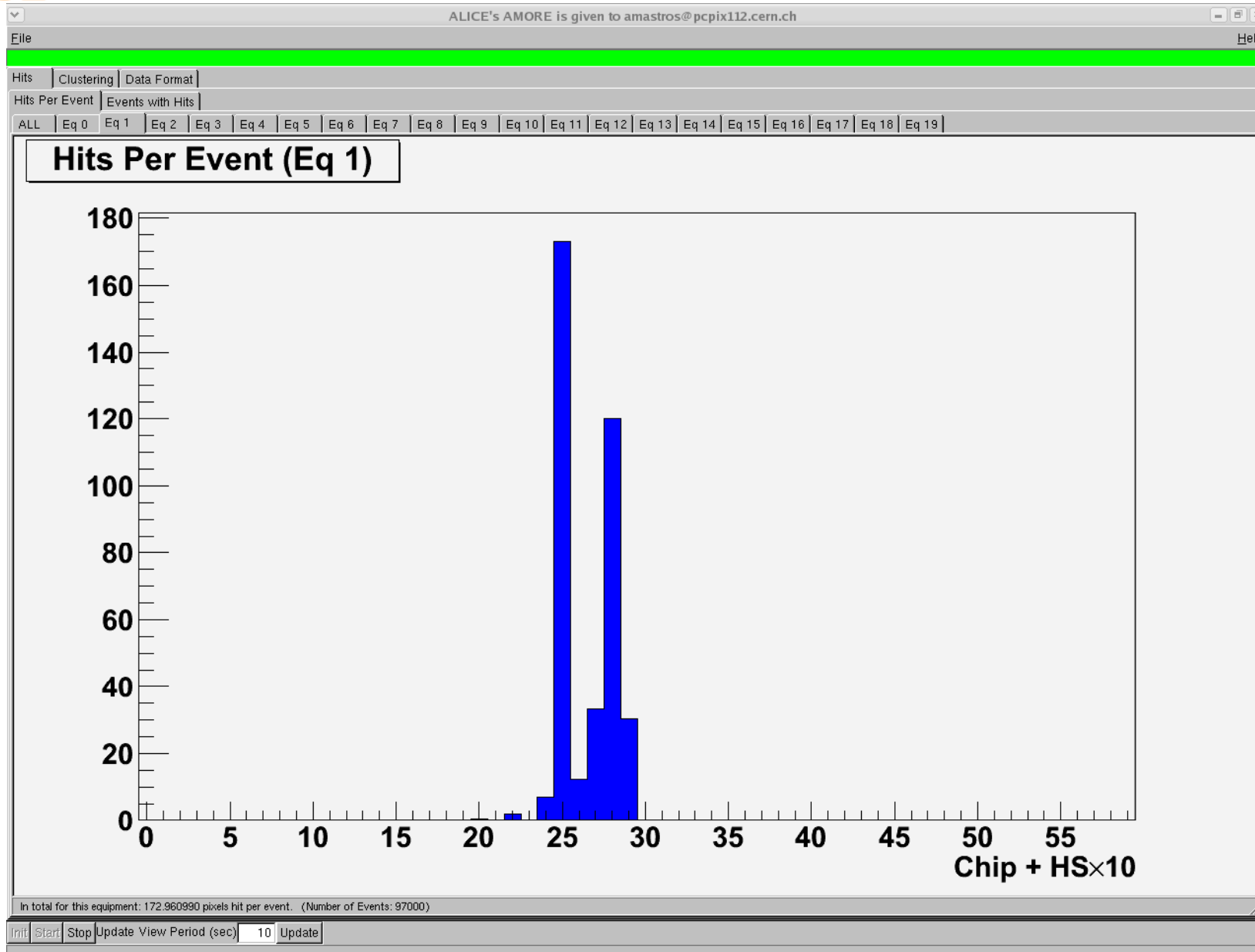


# 1) AMORE mode : Hits





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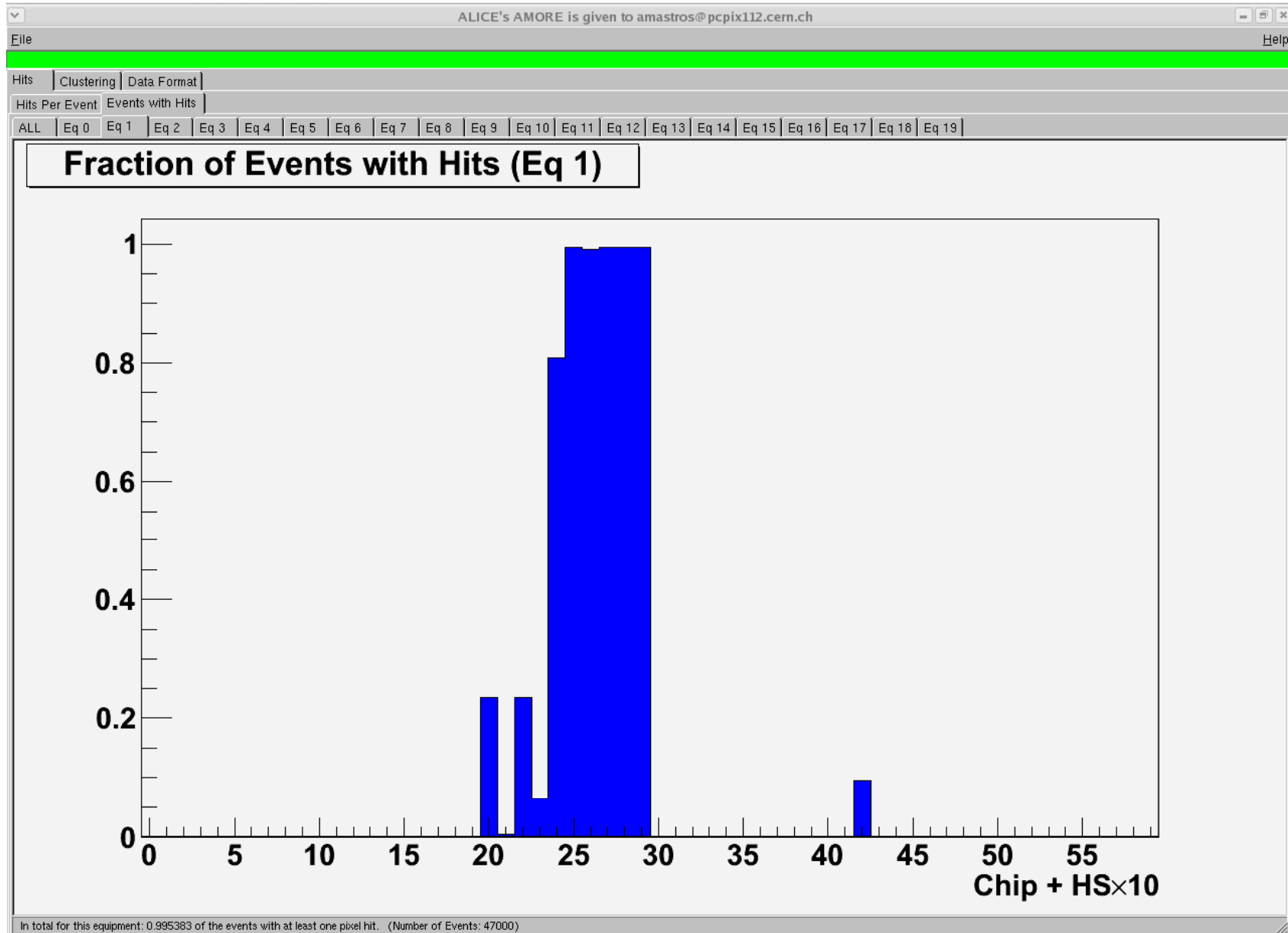
# 1) AMORE mode : Hits







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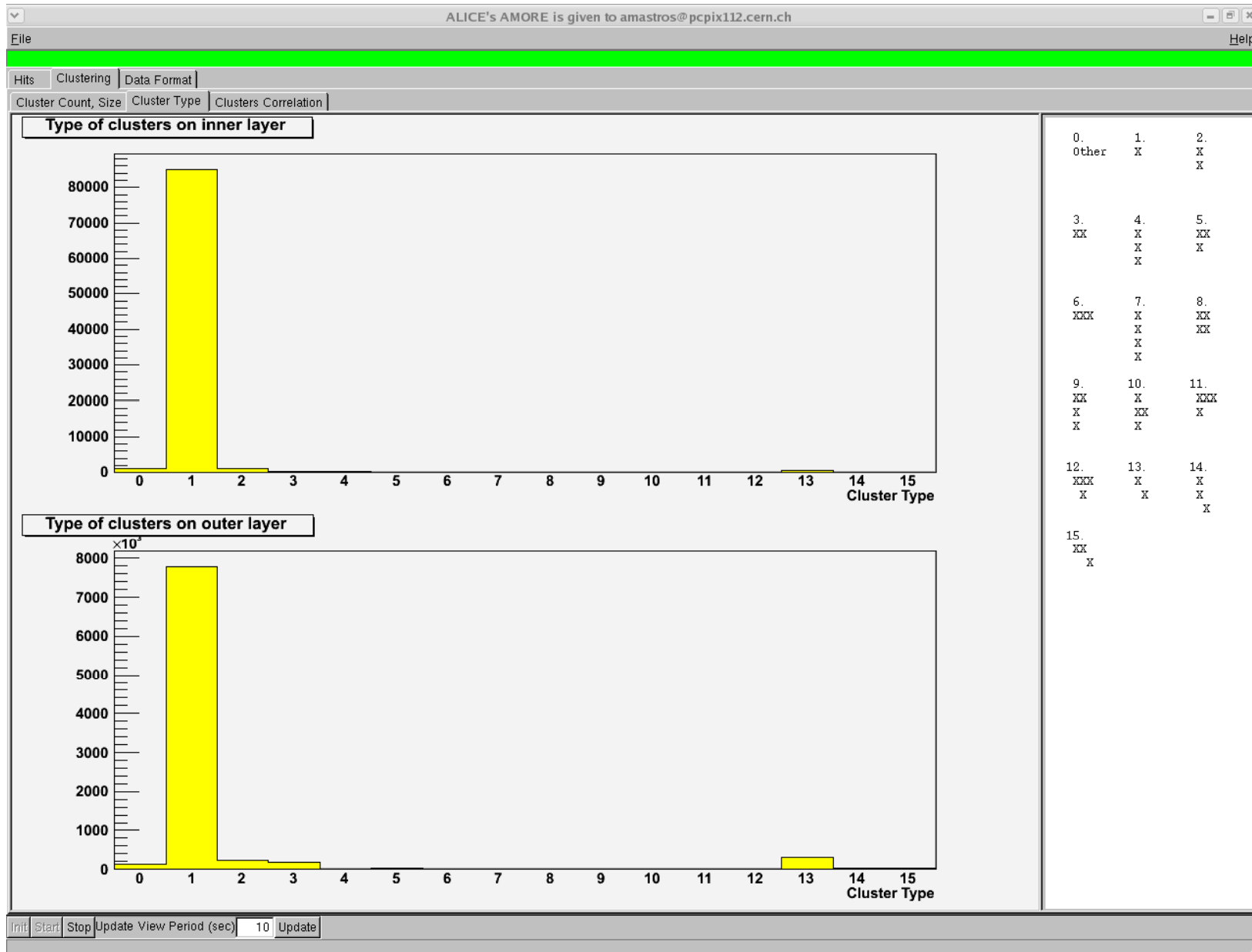


# 1) AMORE mode : Clusters



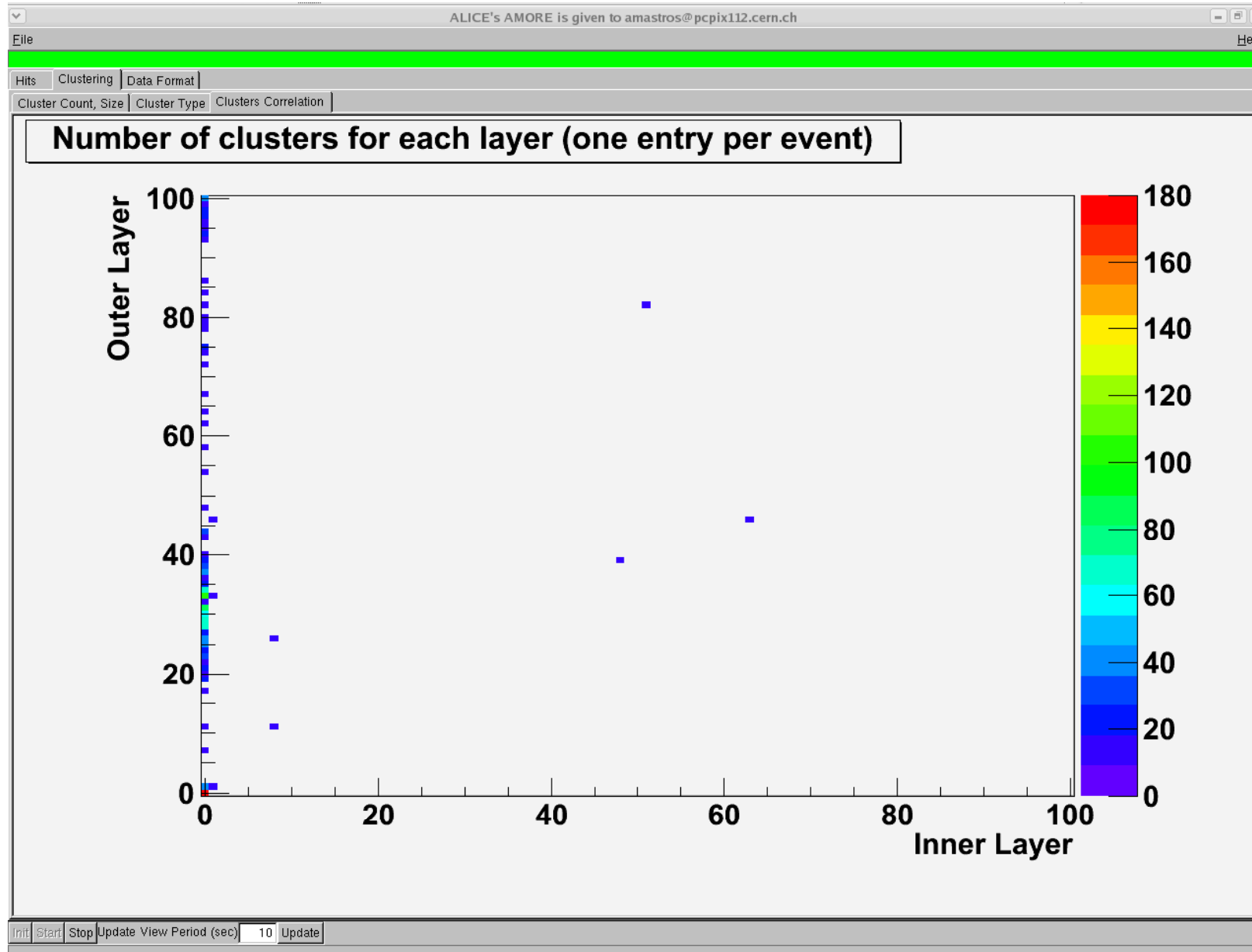


# 1) AMORE mode : Clusters





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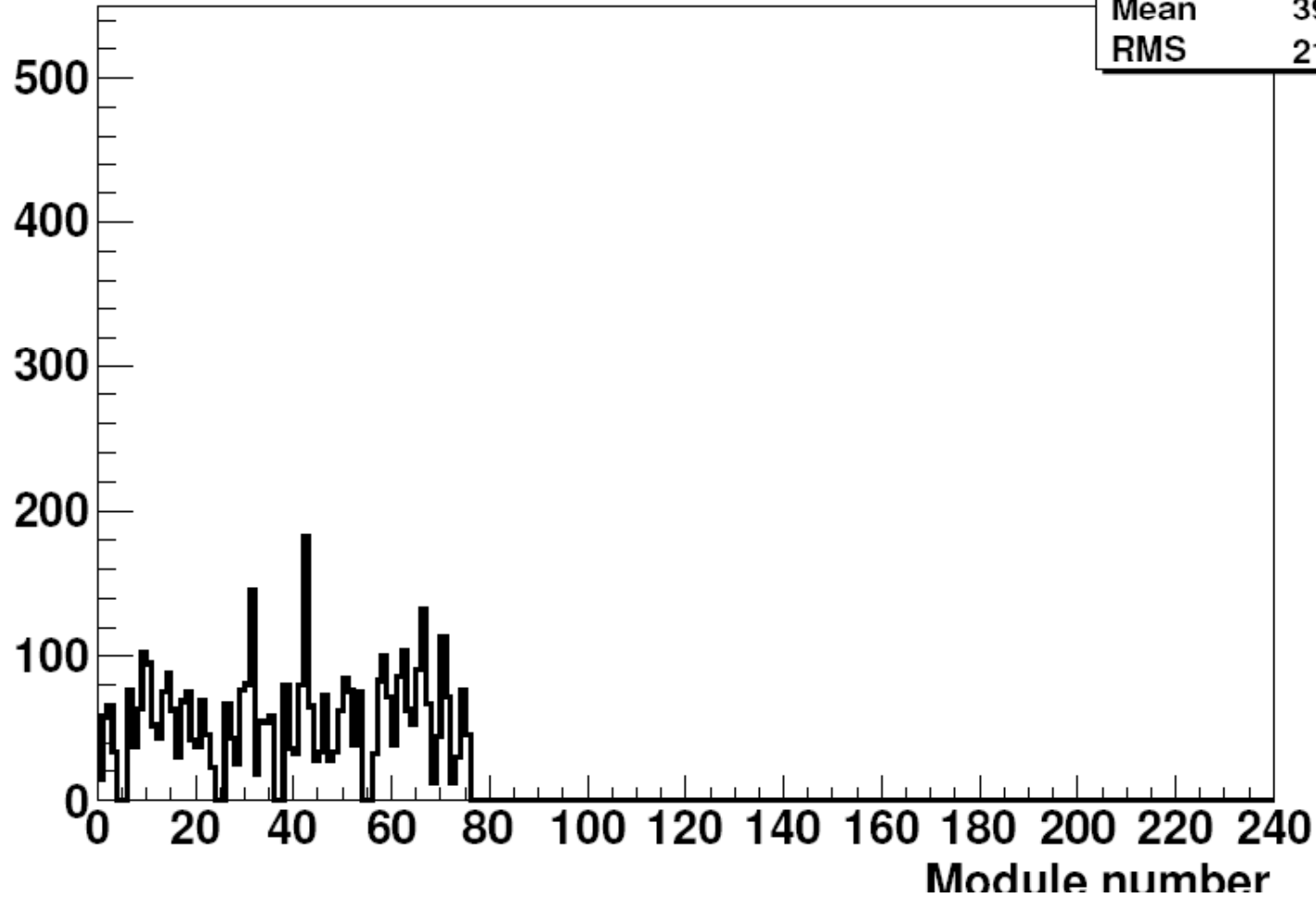


# 1) Offline QA (*amoreQA*):



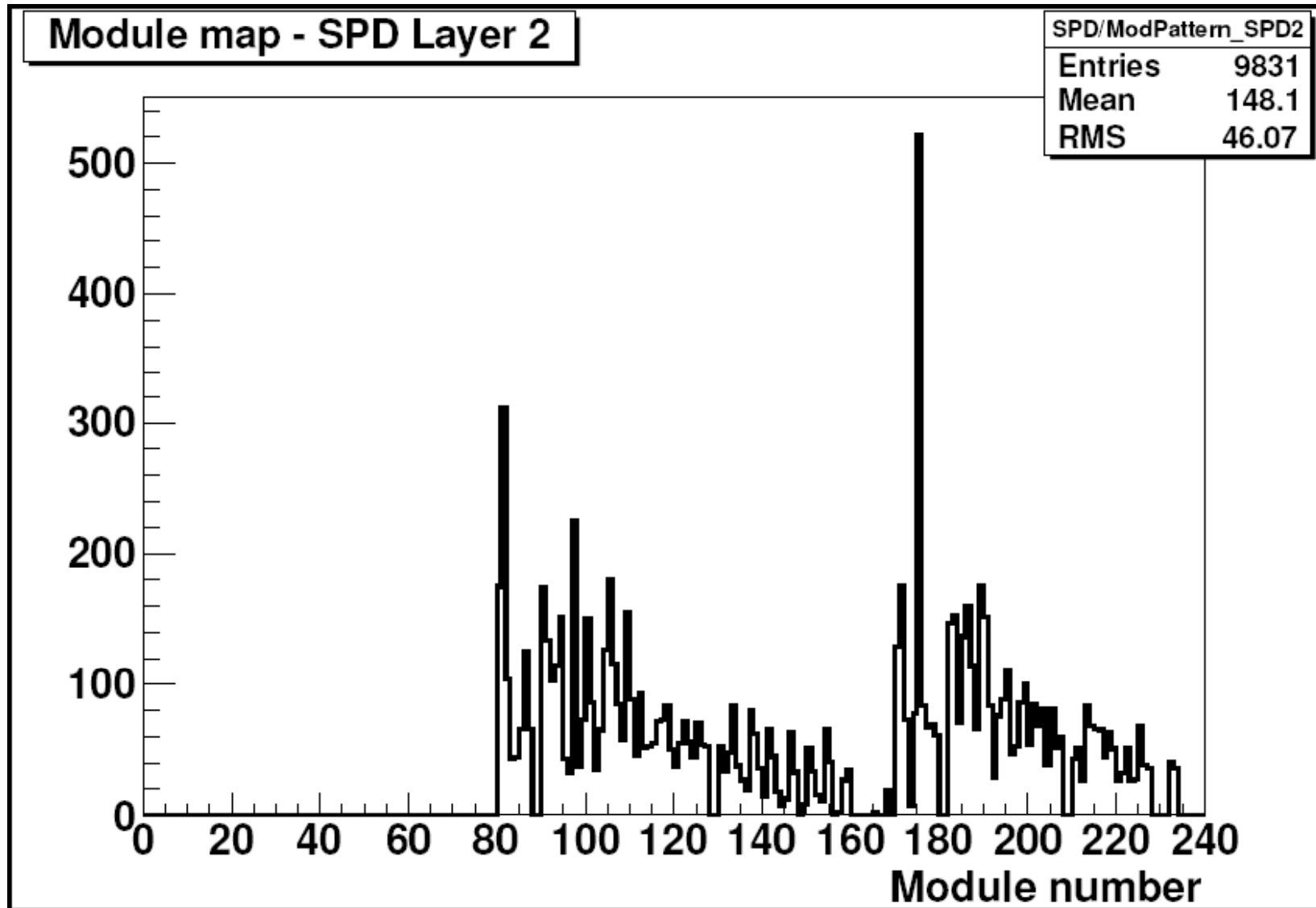
Module map - SPD Layer 1

SPD/ModPattern_SPD1	
Entries	4221
Mean	39.36
RMS	21.77



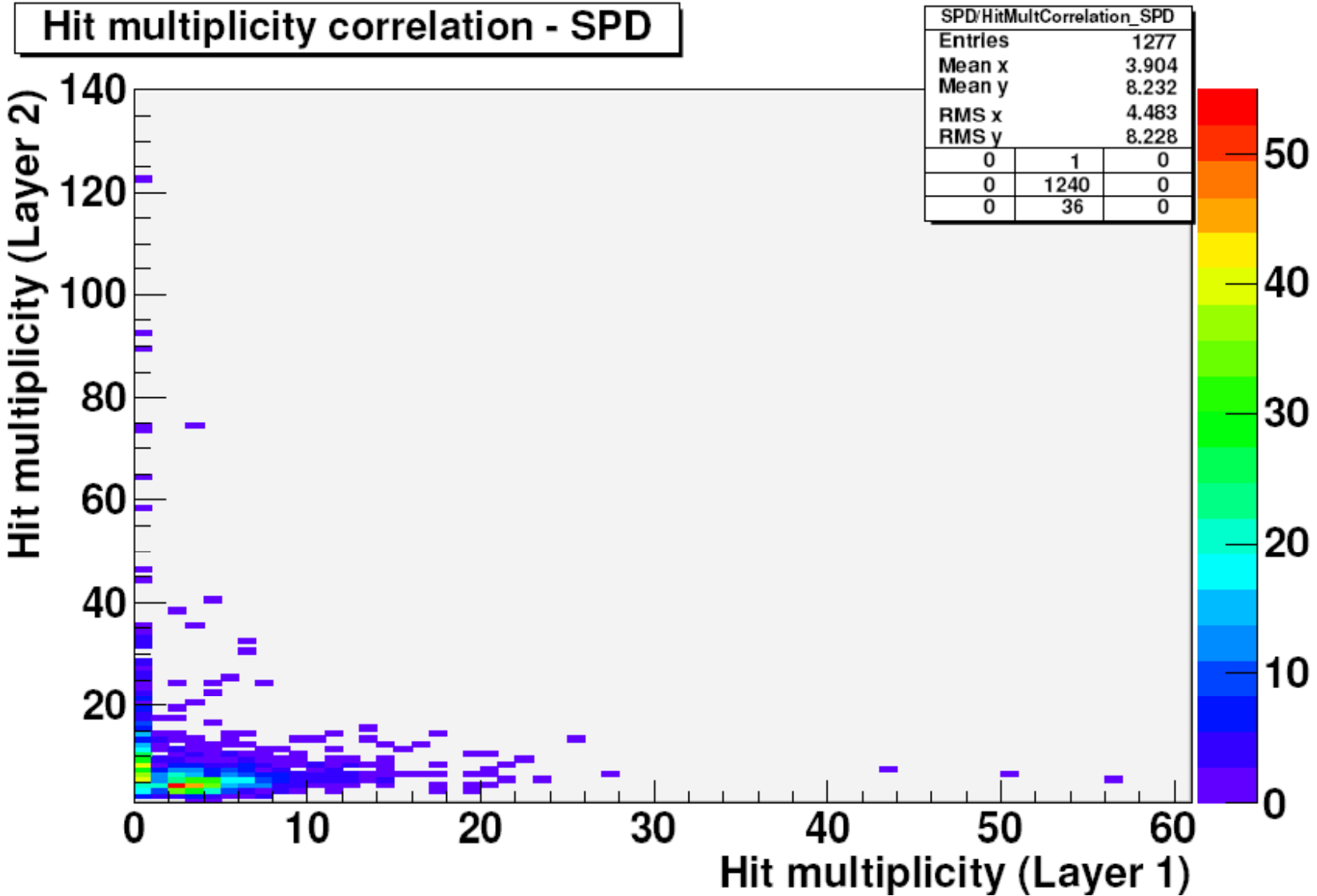


# 1) Offline QA (*amoreQA*):





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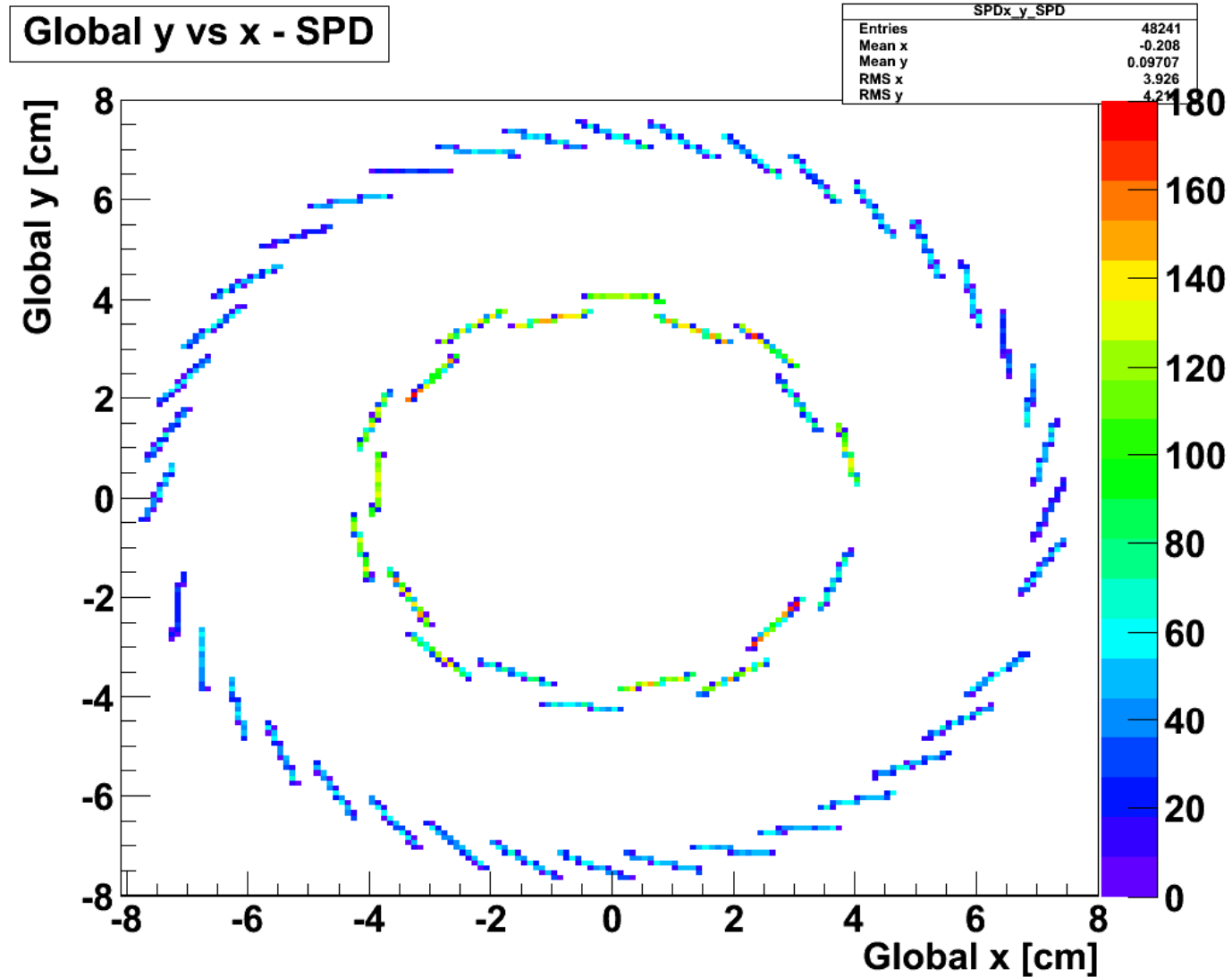
# Comments

- All the plots shown so far (plus the expert offline QA histos) will be available on the logbook. Only some of them will be displayed in the logbook, the others will be just stored and can be picked up later.
  - FO map NOT YET in the monitoring histograms
- 
- Cluster finder is not the aliroot one
  - Cluster finder does not access OCDB (e.g.: dead and noisy pixels)
  - Cluster finder does not know about the geometry (no 3D visualization in AMORE, only in SPD mood)
  - Possibility to have a fast reconstruction using the OCDB by means of HLT processing
  - Other crosscheck plots related to clusters could be possible (being aware in this case also the clustering algorithm plays a role). As a cross check it is meant a feedback everything is working as expected (no active HS are actually missing, etc.)





# Clusters QA histos as a cross check



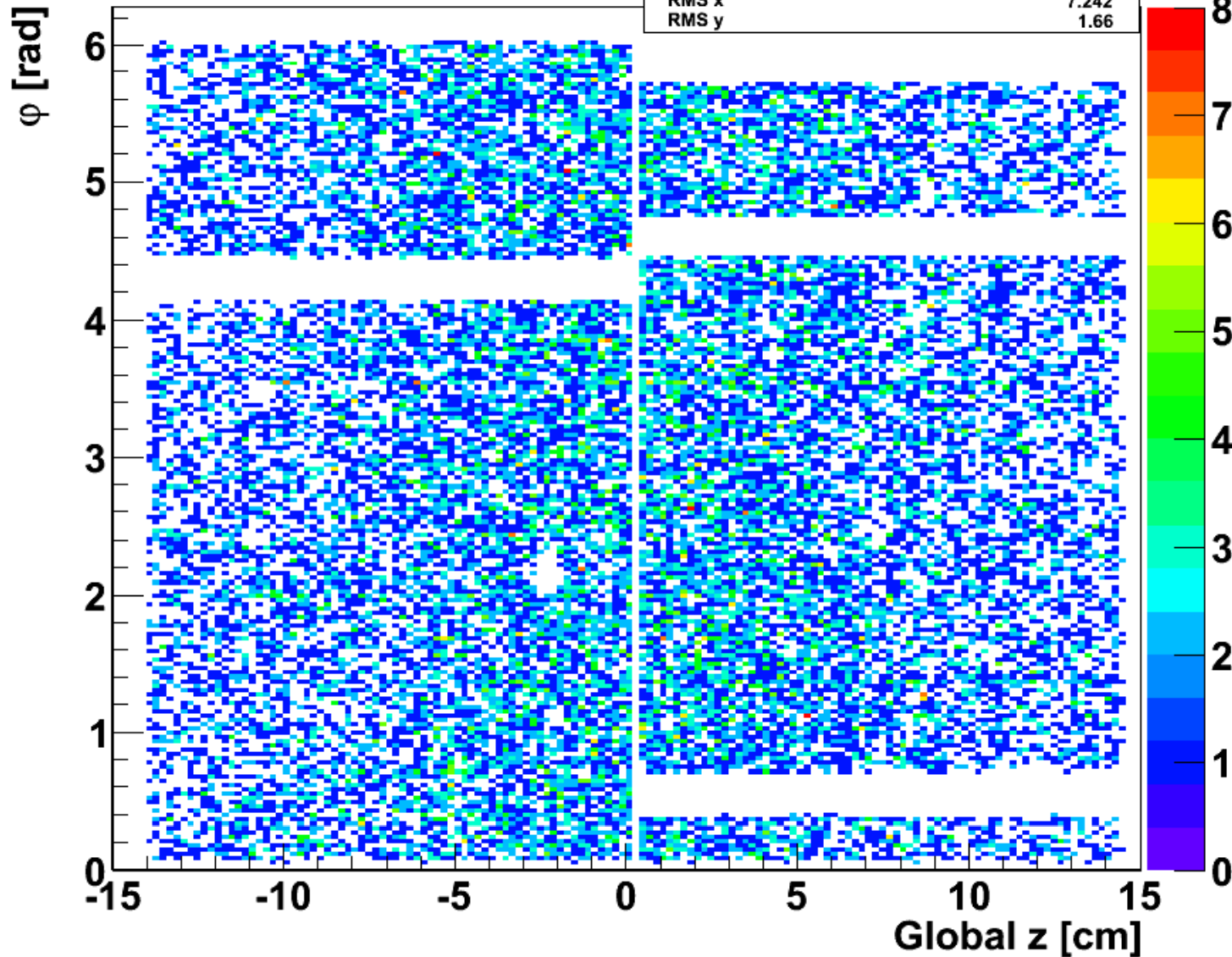


# Clusters QA histos as a cross check



$\phi$  vs z - SPD Layer 1

SPDphi_z_SPD1	
Entries	26177
Mean x	0.01435
Mean y	2.943
RMS x	7.242
RMS y	1.66



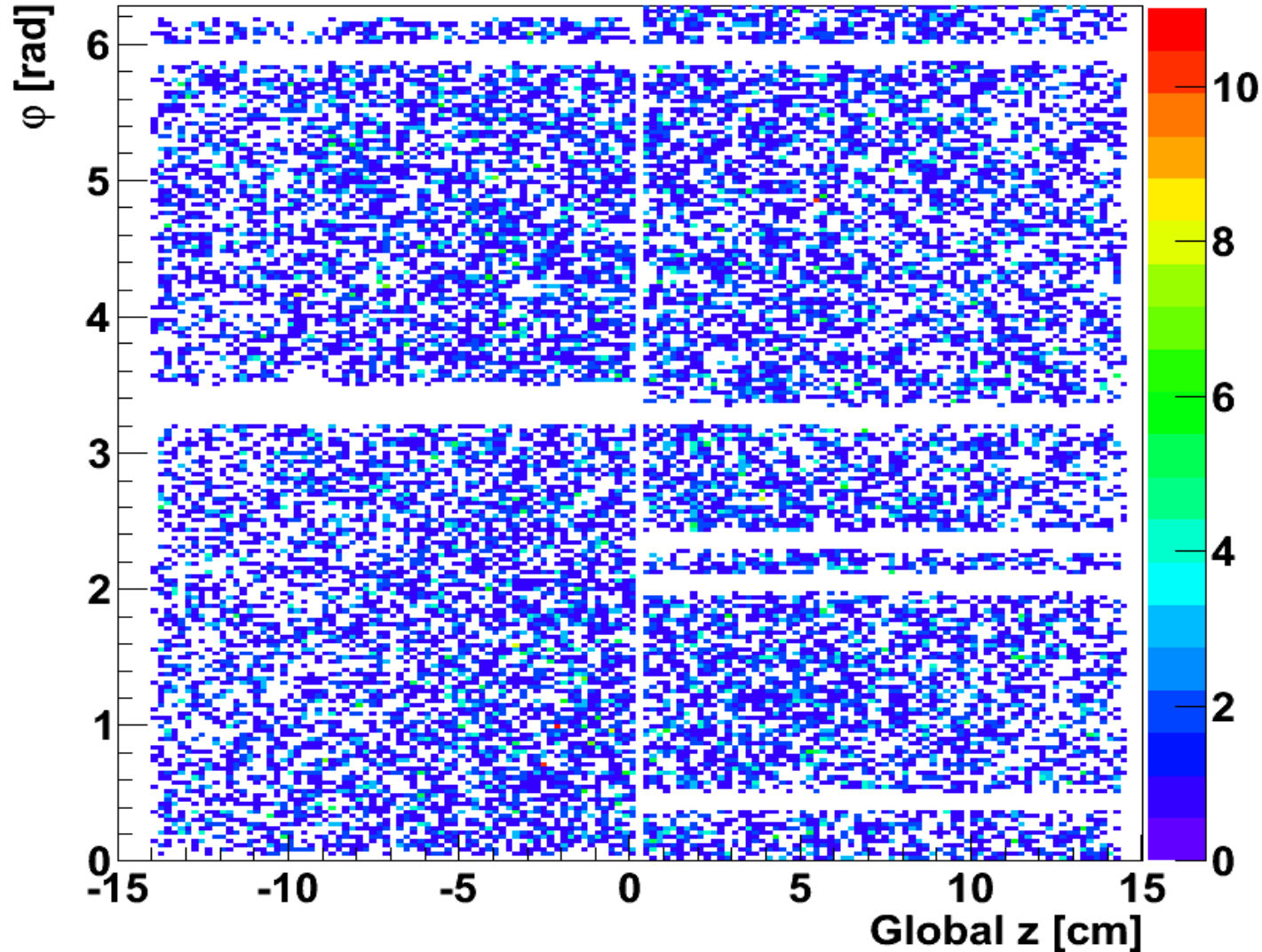


# Clusters QA histos as a cross check



$\phi$  vs z - SPD Layer 2

SPDphi_z_SPD2	
Entries	22064
Mean x	0.2971
Mean y	3.081
RMS x	7.739
RMS y	1.803





- Waiting for feedback 😊