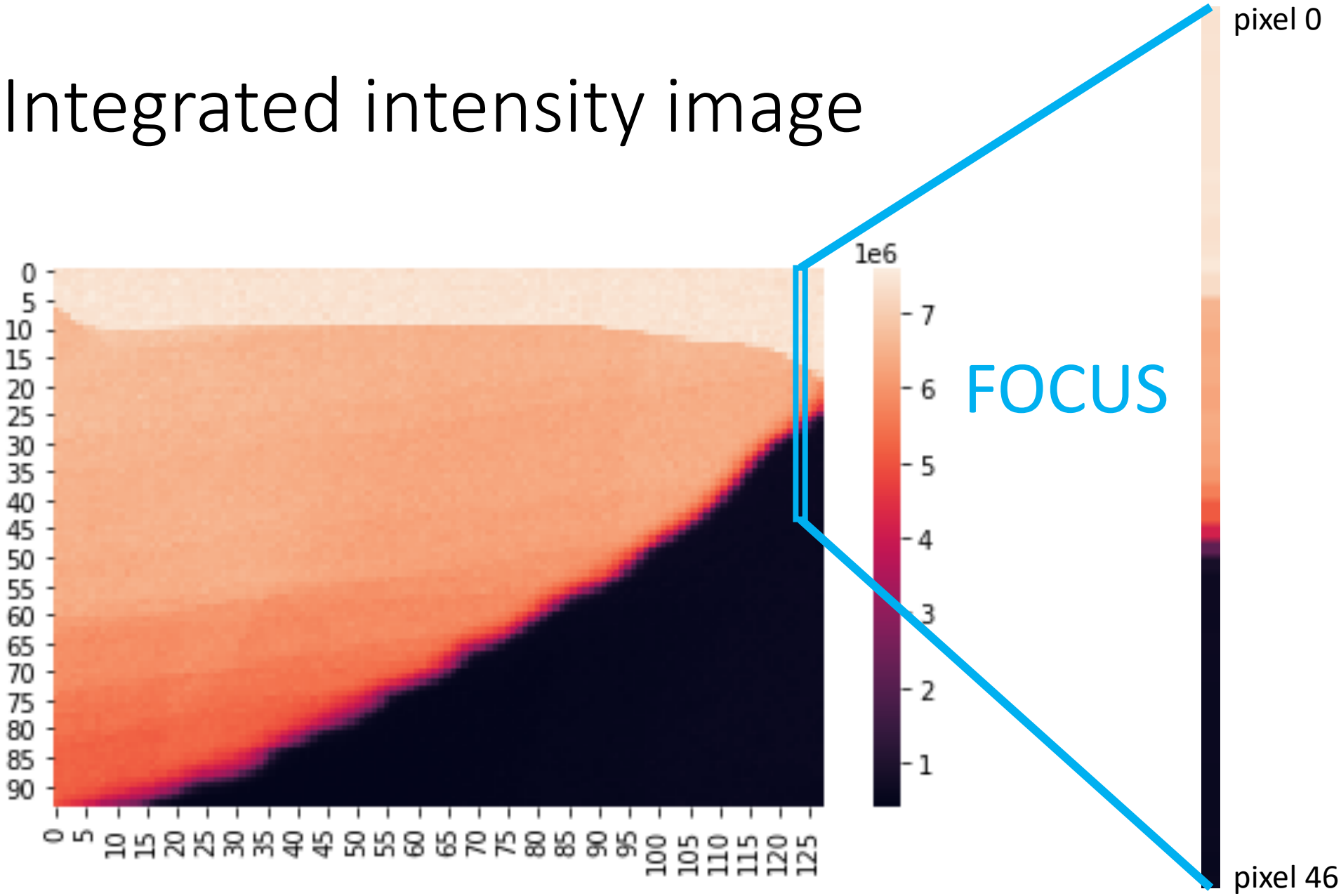
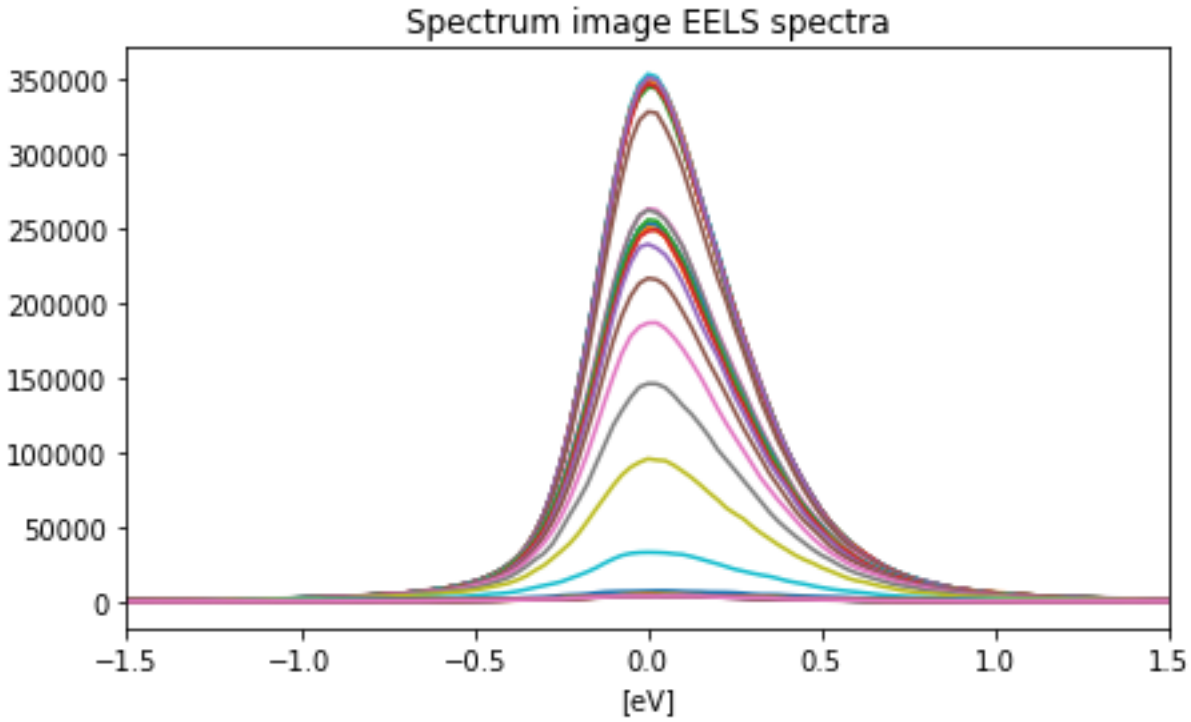
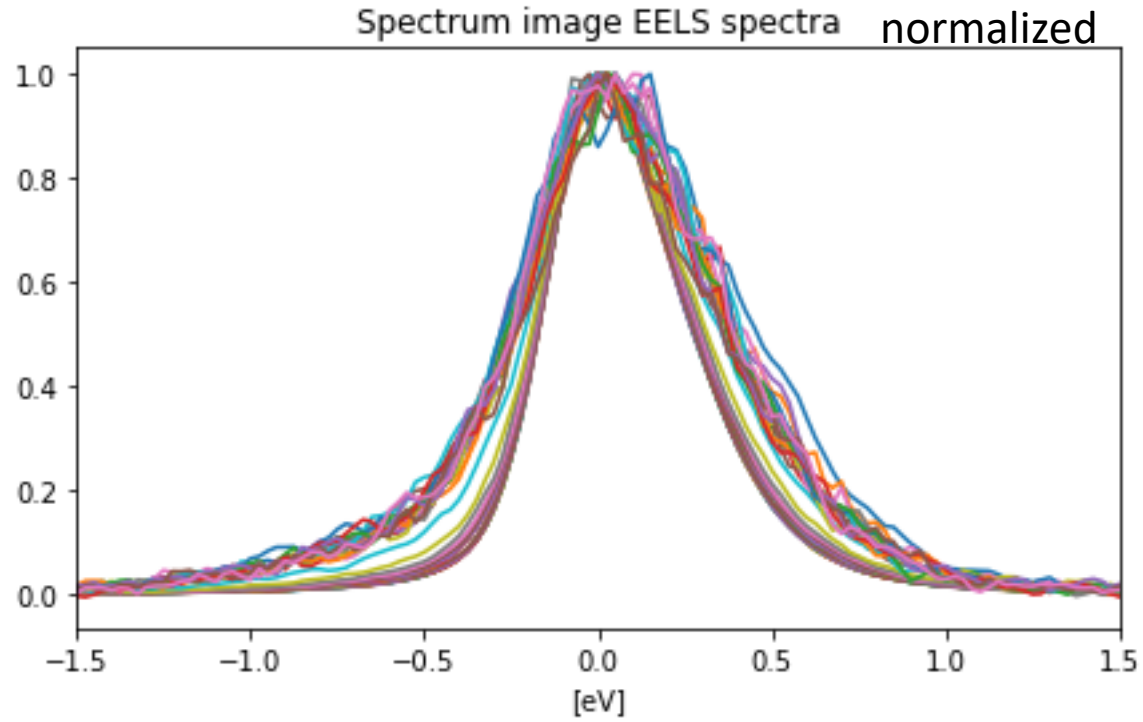
CLUSTERING???

Integrated intensity image



All spectra:

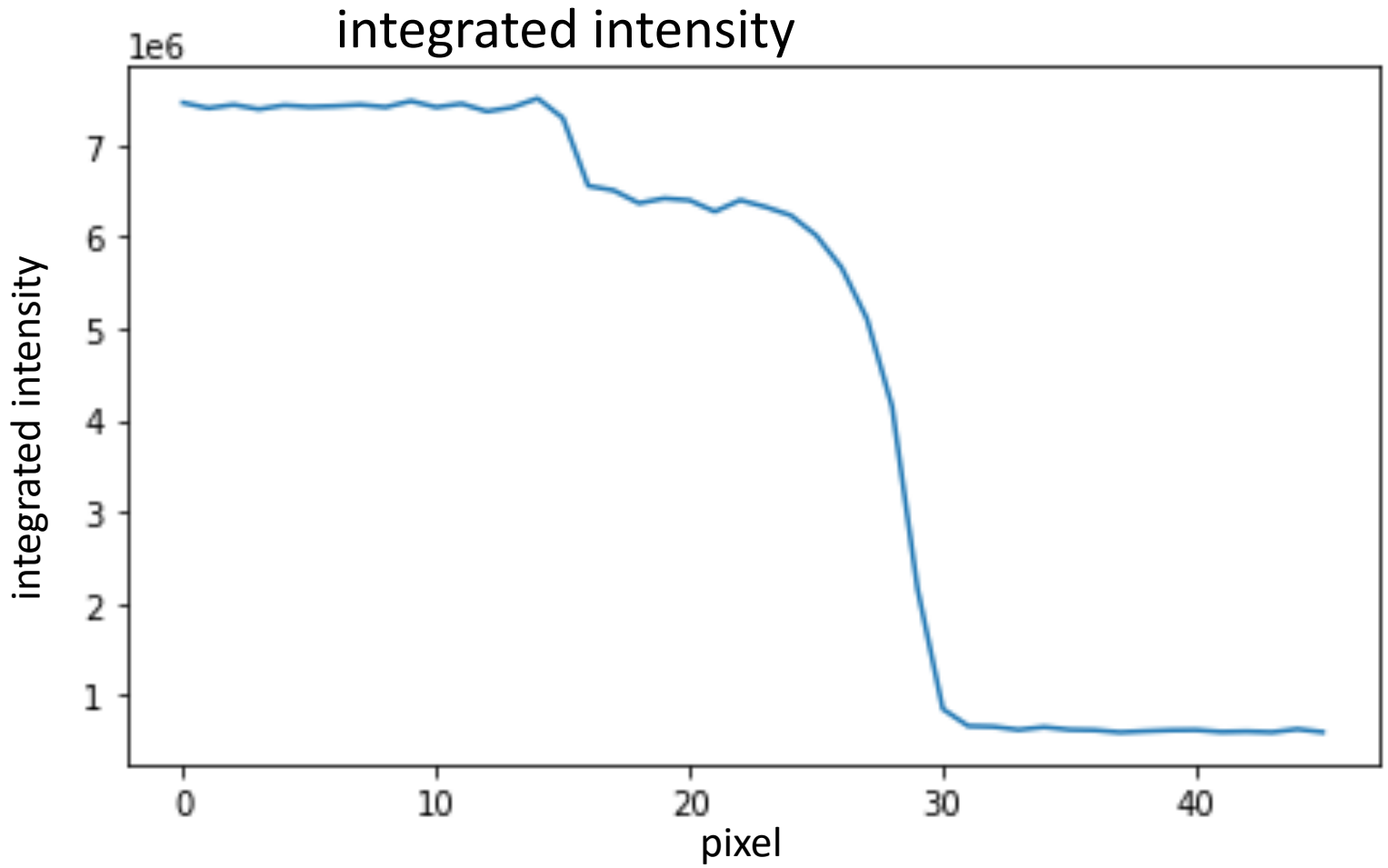




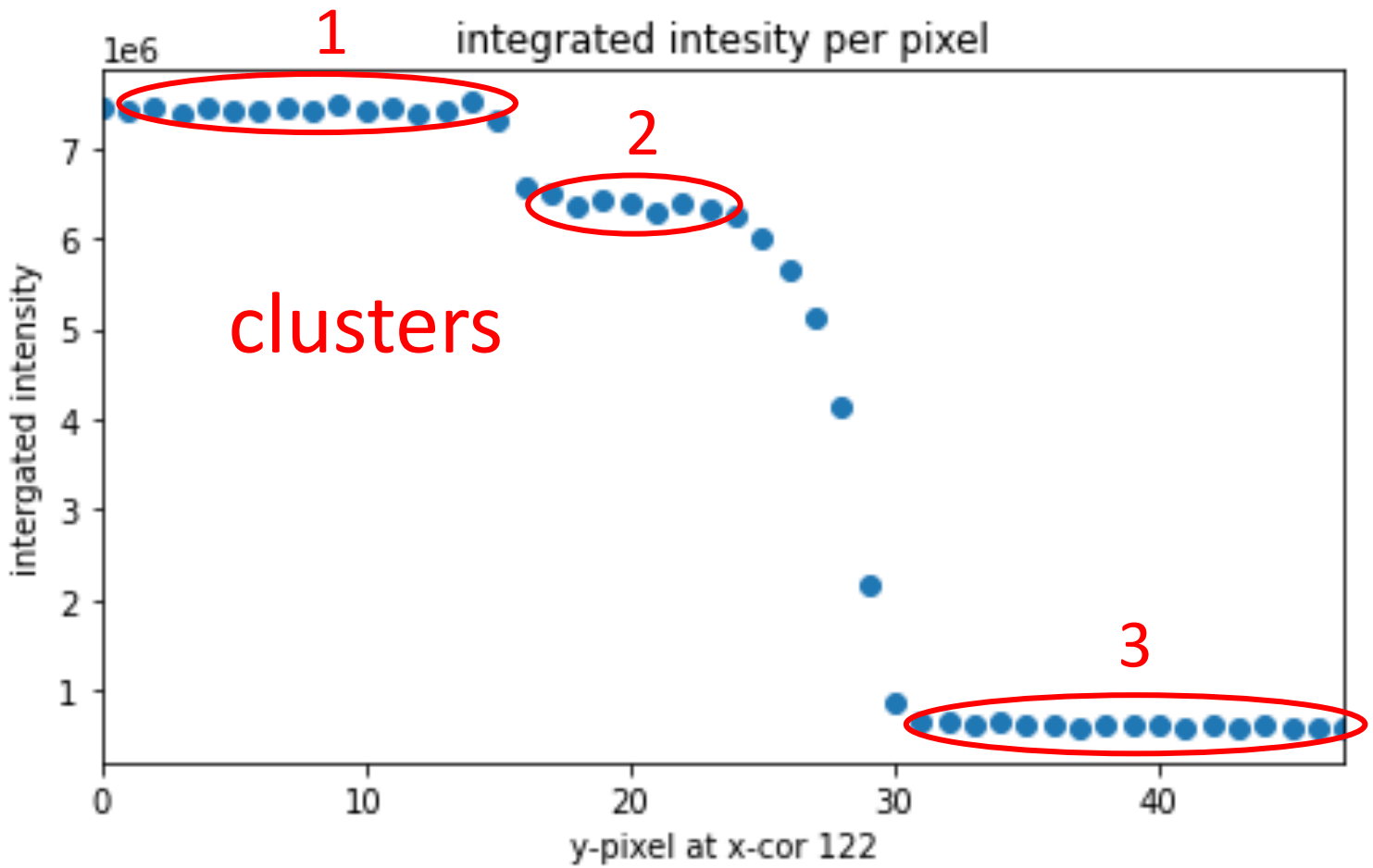
Quite obvious that trying to find a single ZLP prediction for all pixels will not be feasible: difer to much both in amplitude and in HPW.

→ need to cluster?

Clustering based on thickness/integrated intensity

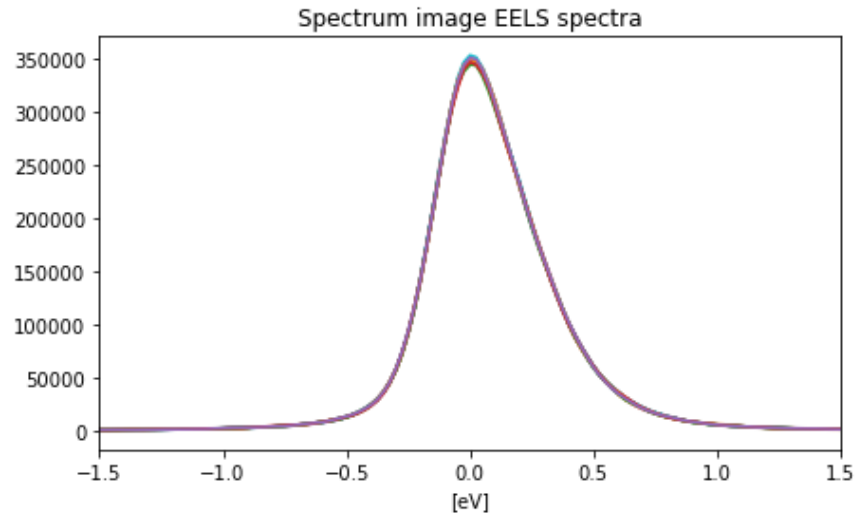


Clustering based on thickness/integrated intensity

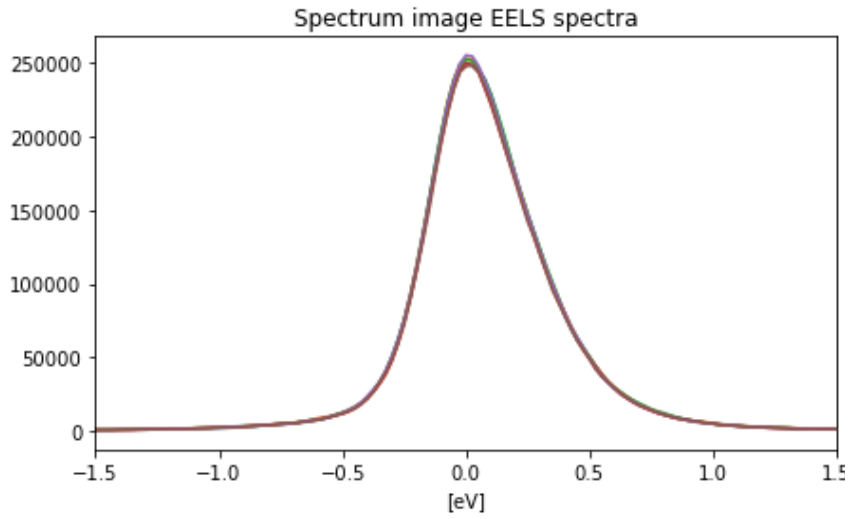


Spectra in clusters, not normalized

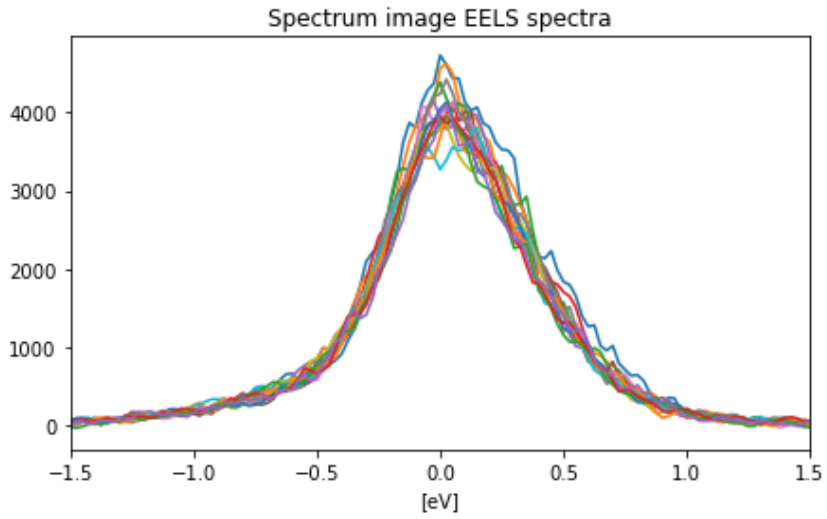
1



2



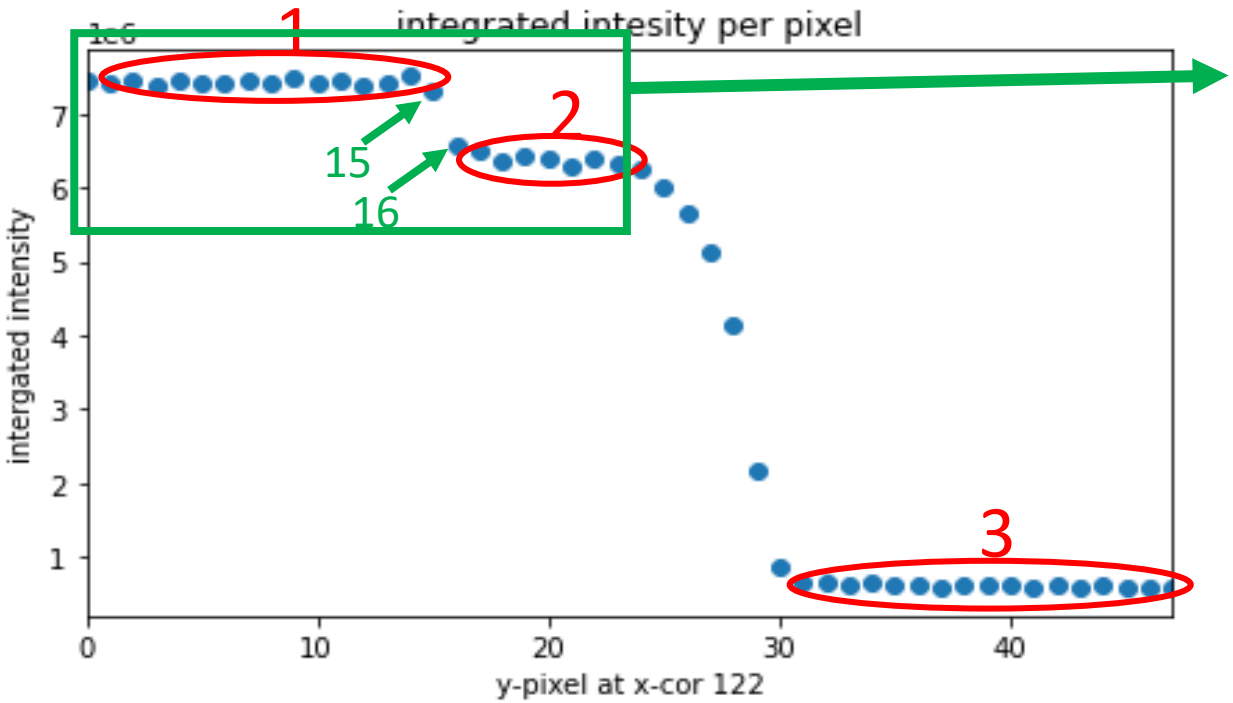
3

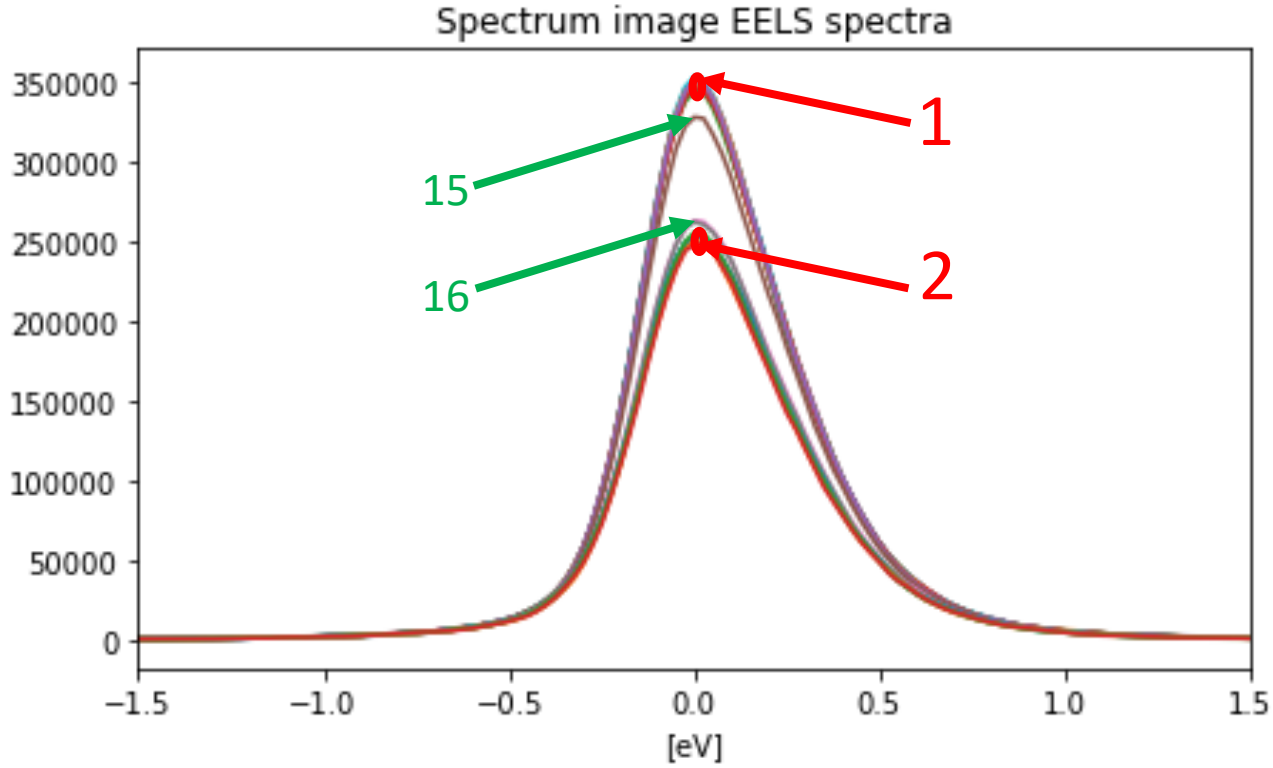


Would probably work right!!

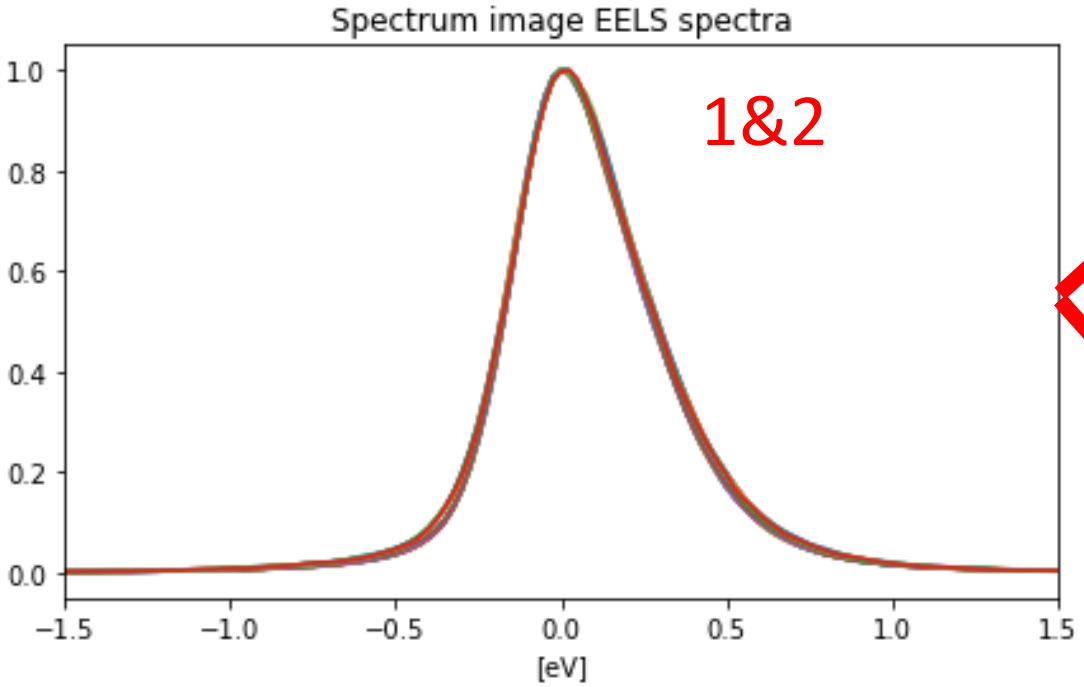
But… what about the in between values?

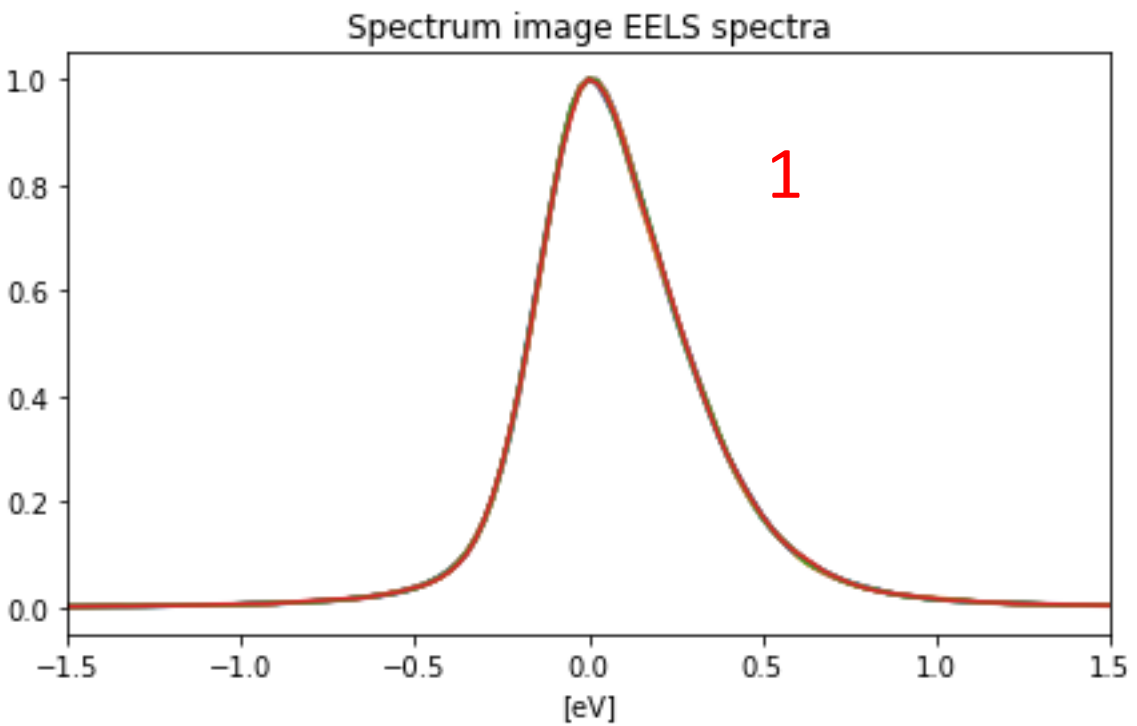
Cluster 1 and 2, and in between values

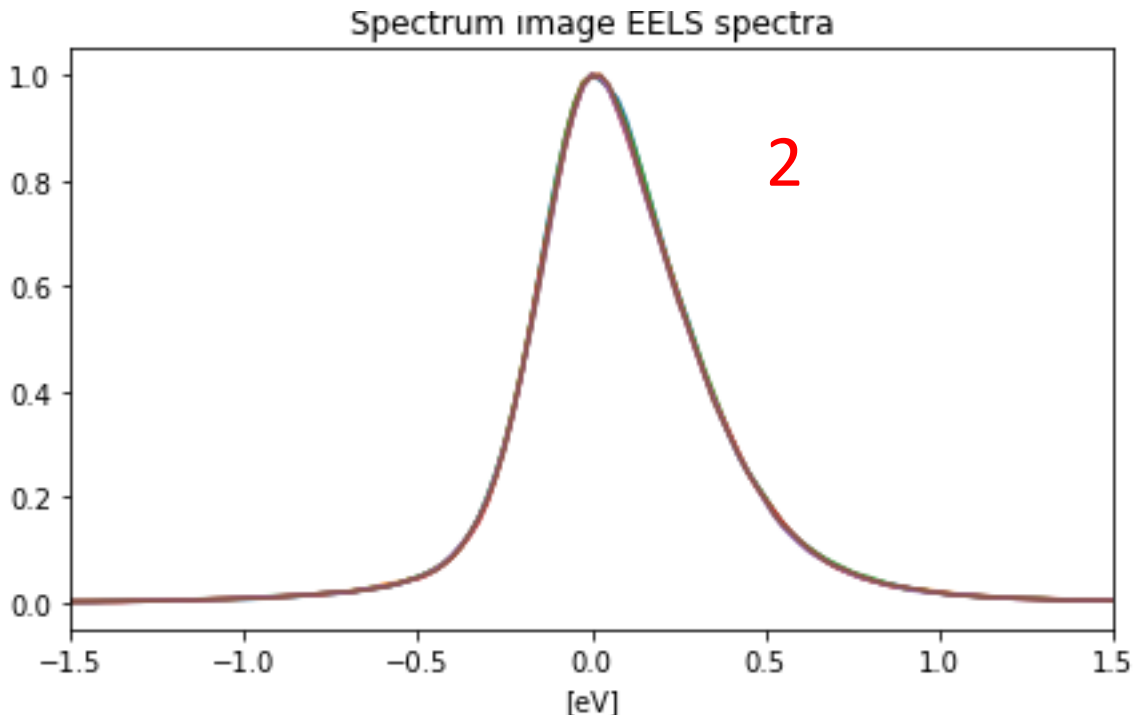




Cluster 1 and 2 based on thickness/ integrated intensity, normilized:

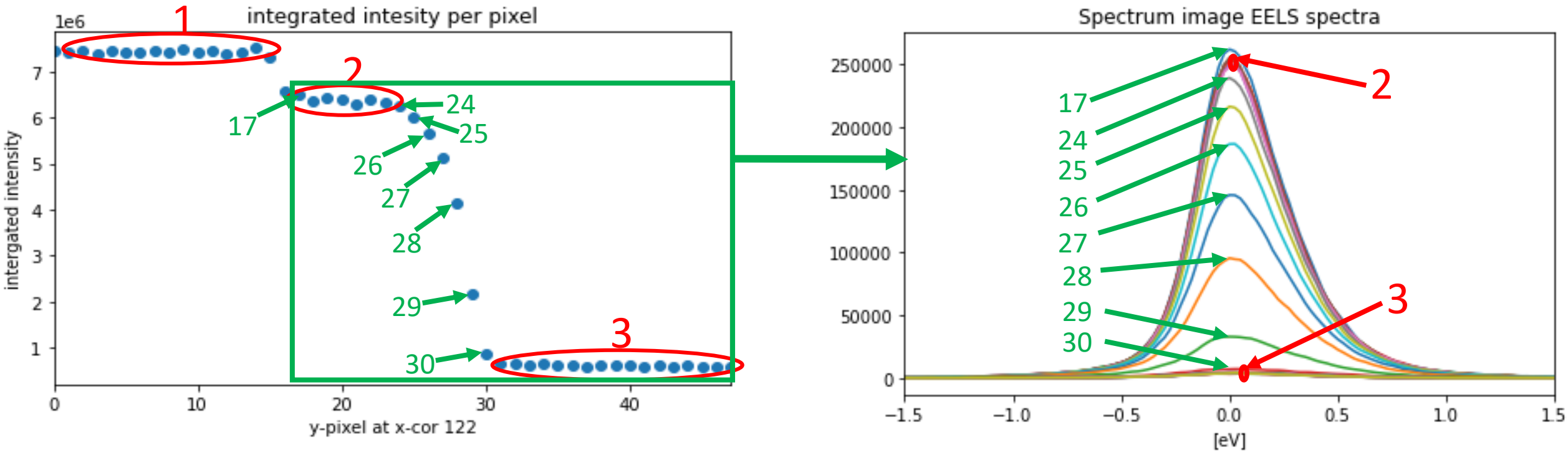




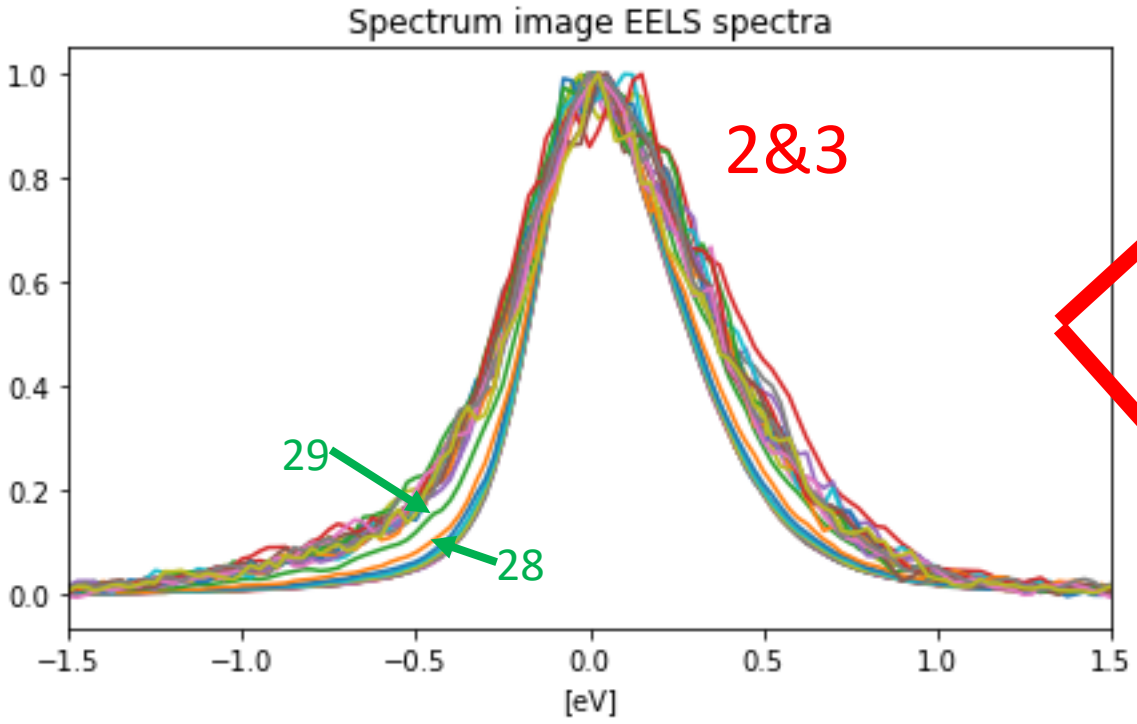


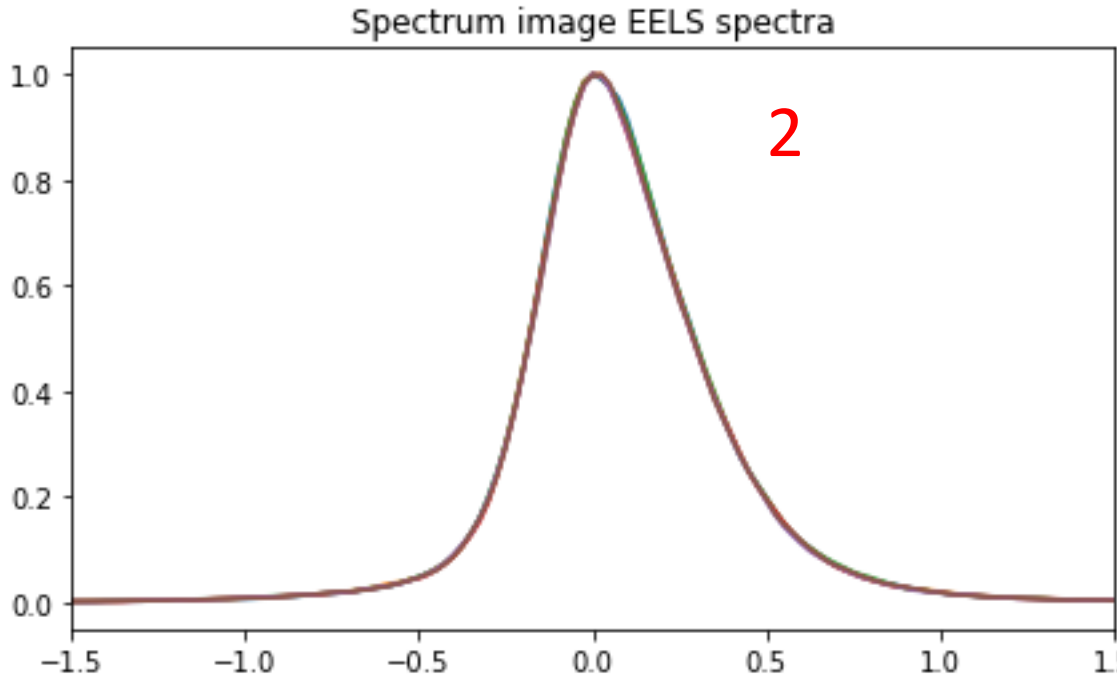
Combining cluster 1&2 looks quite okay, but still improves when split. The values in between don’t look like a real problem when normalized.

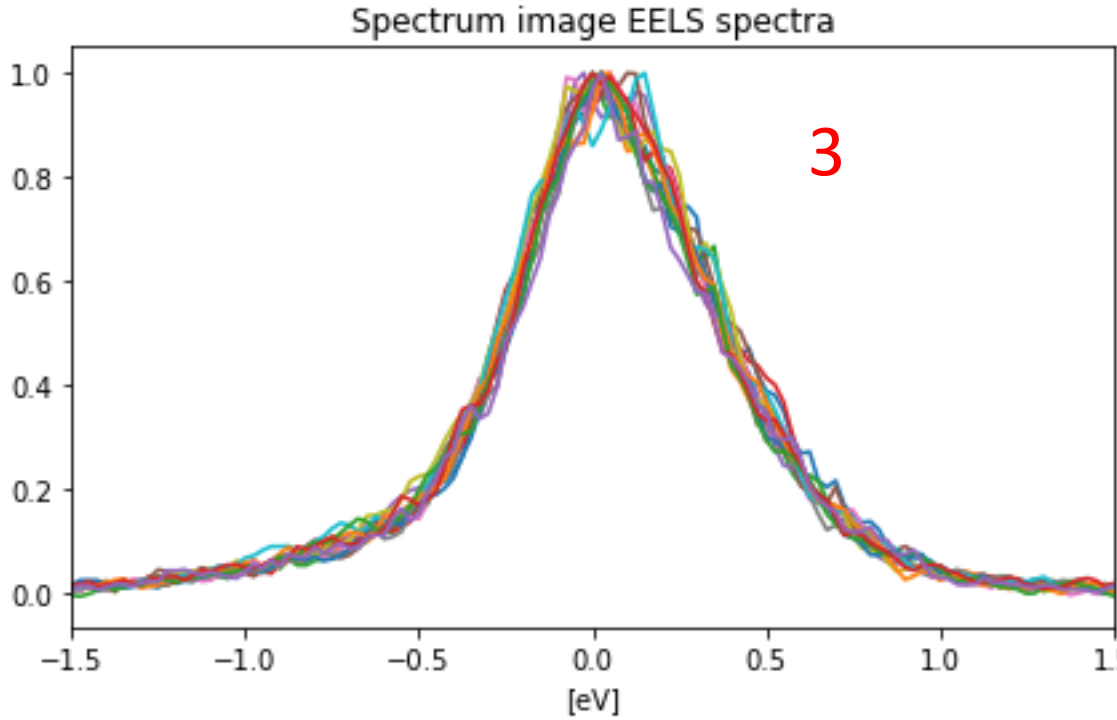
Cluster 2 and 3, and in between values



Cluster 1 and 2 based on thickness/ integrated intensity, normilized:

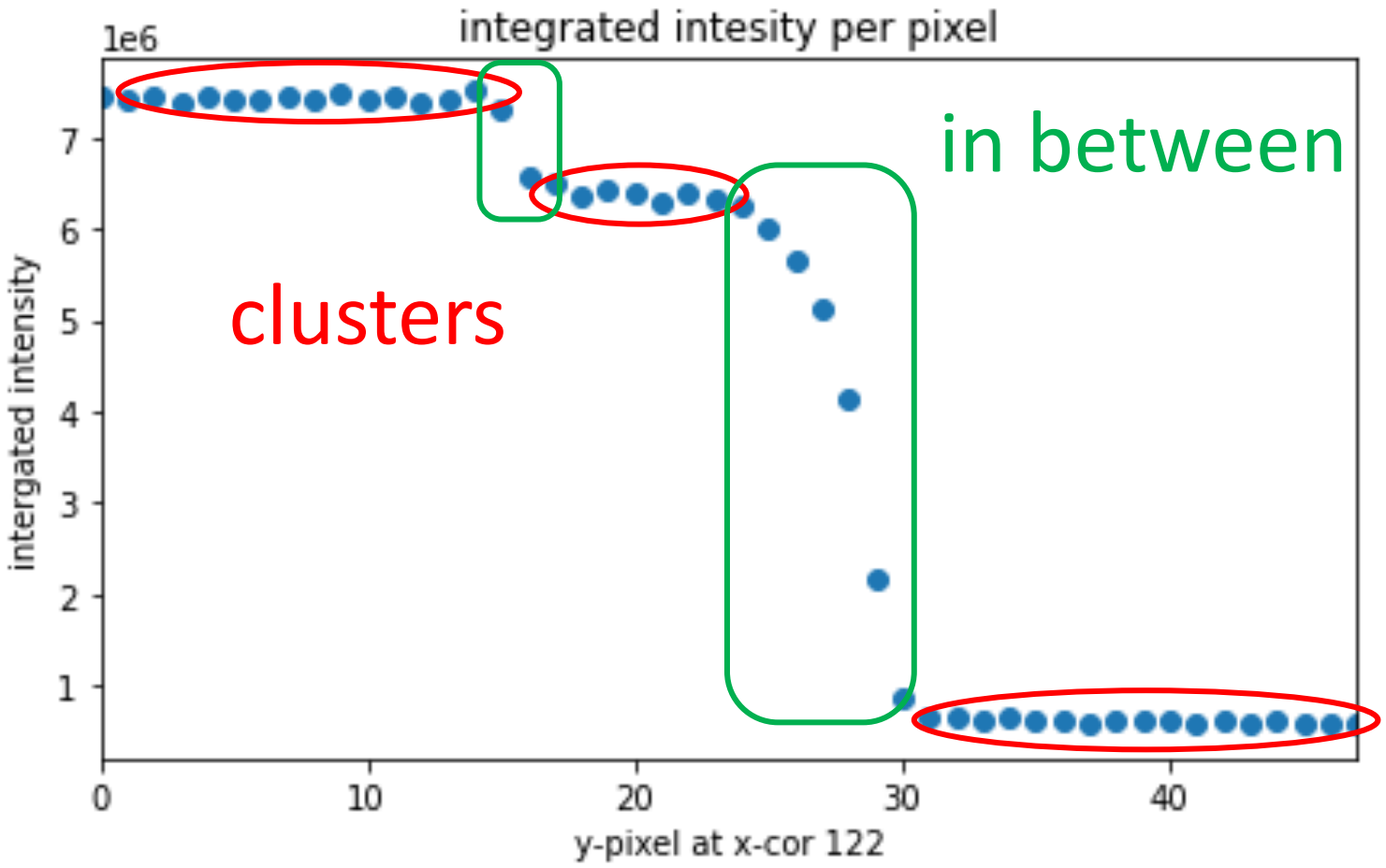






Combining cluster 2&3 together does not work, and now the values in between pose a problem also when normalized…

Clustering based on thickness/integrated intensity



WHAT TO DO WITH IN BETWEEN VALUES??

WHAT IF: instead of clustering, we give in the integrated intensity of each spectrum as an extra trainings variable???