

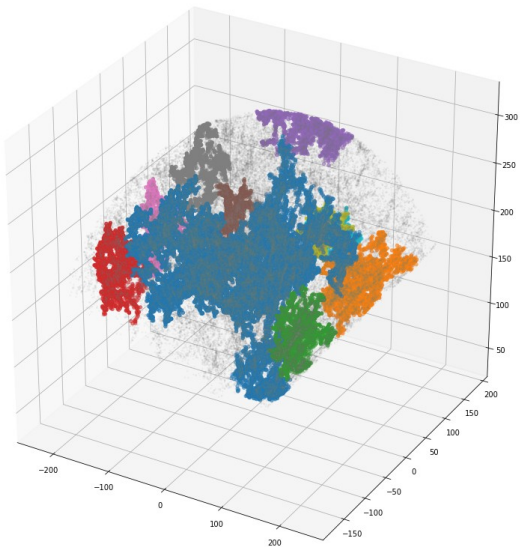
Comparing 4 Algorithms

- Mr20.0 data
- Cut-length = 4.0
 - MST : *cut-length* = 4.0
 - MGS : *fResolution* = 4.0
 - DBSCAN : *eps* = 4.0, *min_sample*=10
 - Hierarchical : *distance_threshold* = 4.0
- Number of galaxies ≥ 3

- **Largest 10 clusters**

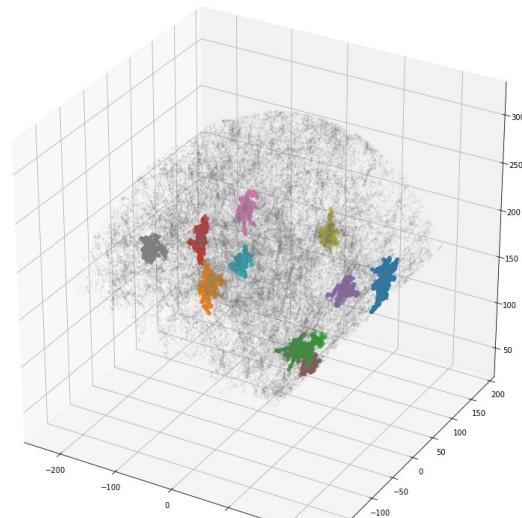
MST

Total :
4185



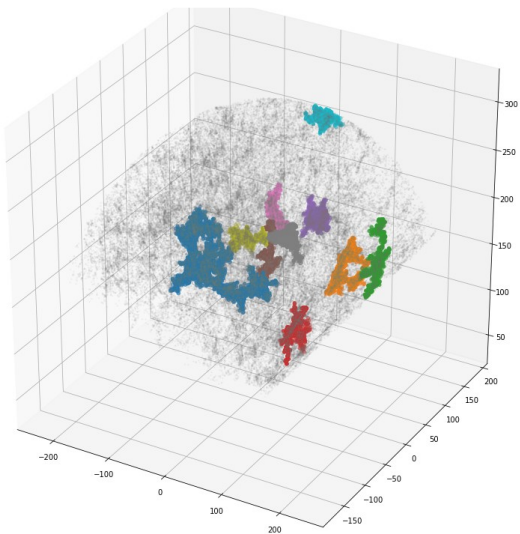
MGS

Total:
8191



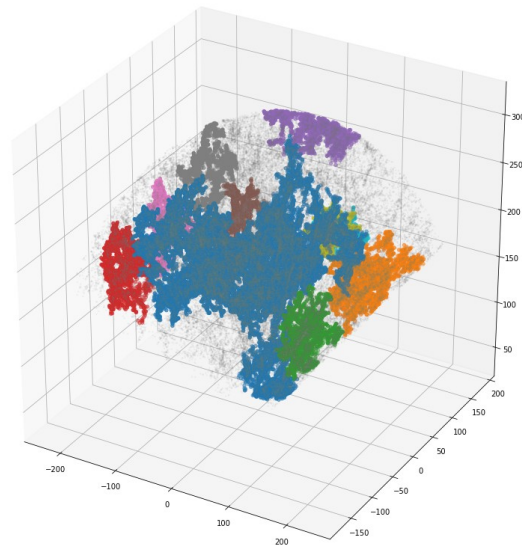
DBSCAN

Total:
1479



Hierarchical

Total:
4185

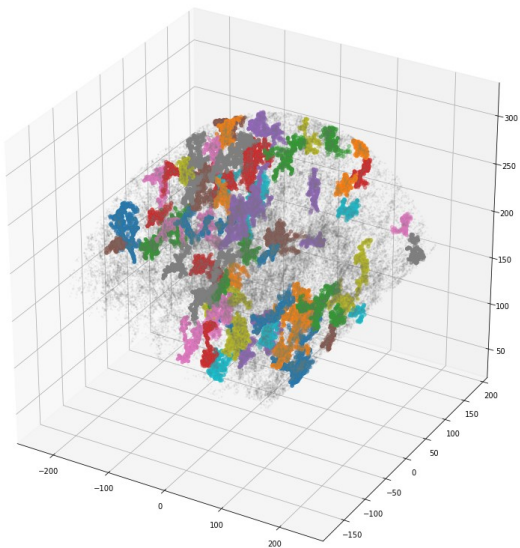


Comparing 4 Algorithms

- Only the cluster that number of galaxies is larger than 100
- Except 10 largest clusters

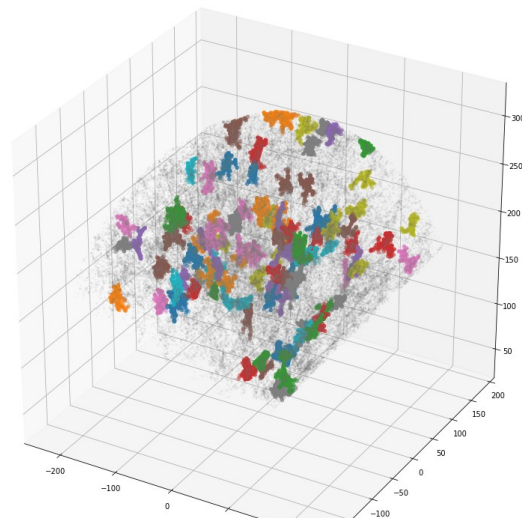
MST

76(86)



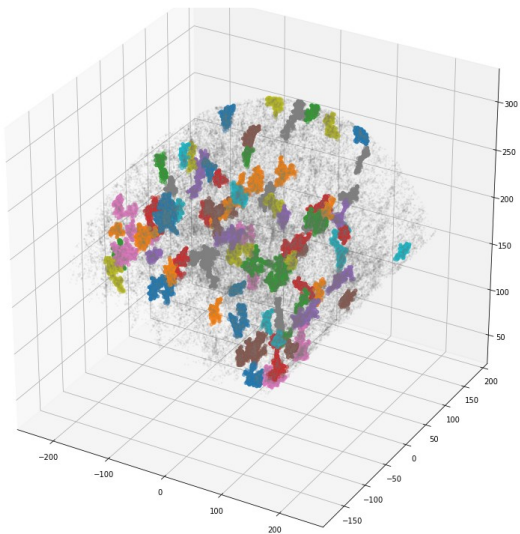
MGS

101
(111)



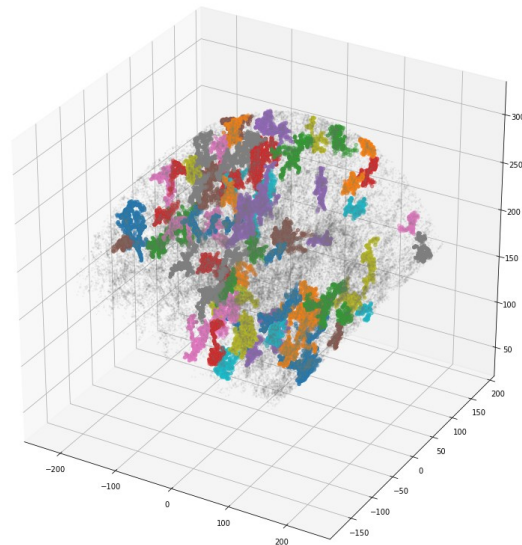
DBSCAN

84(94)



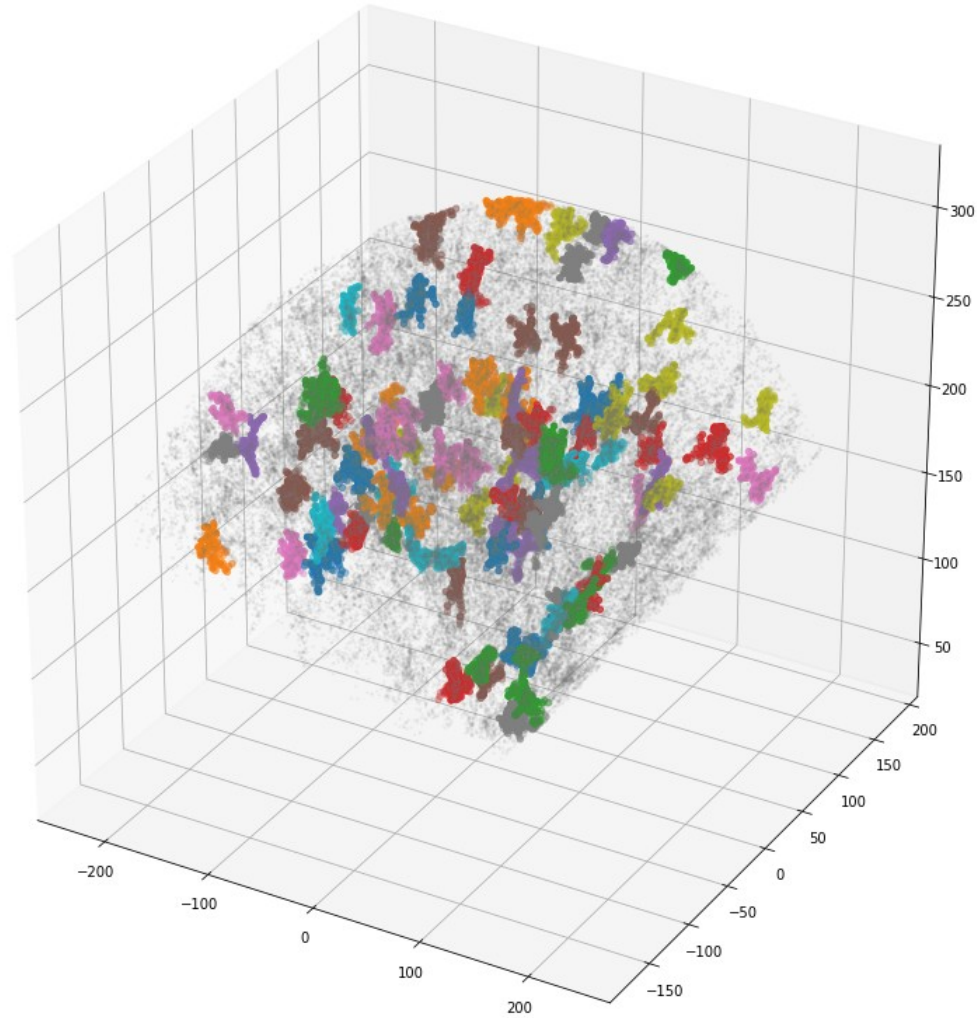
Hierarchical

76(86)



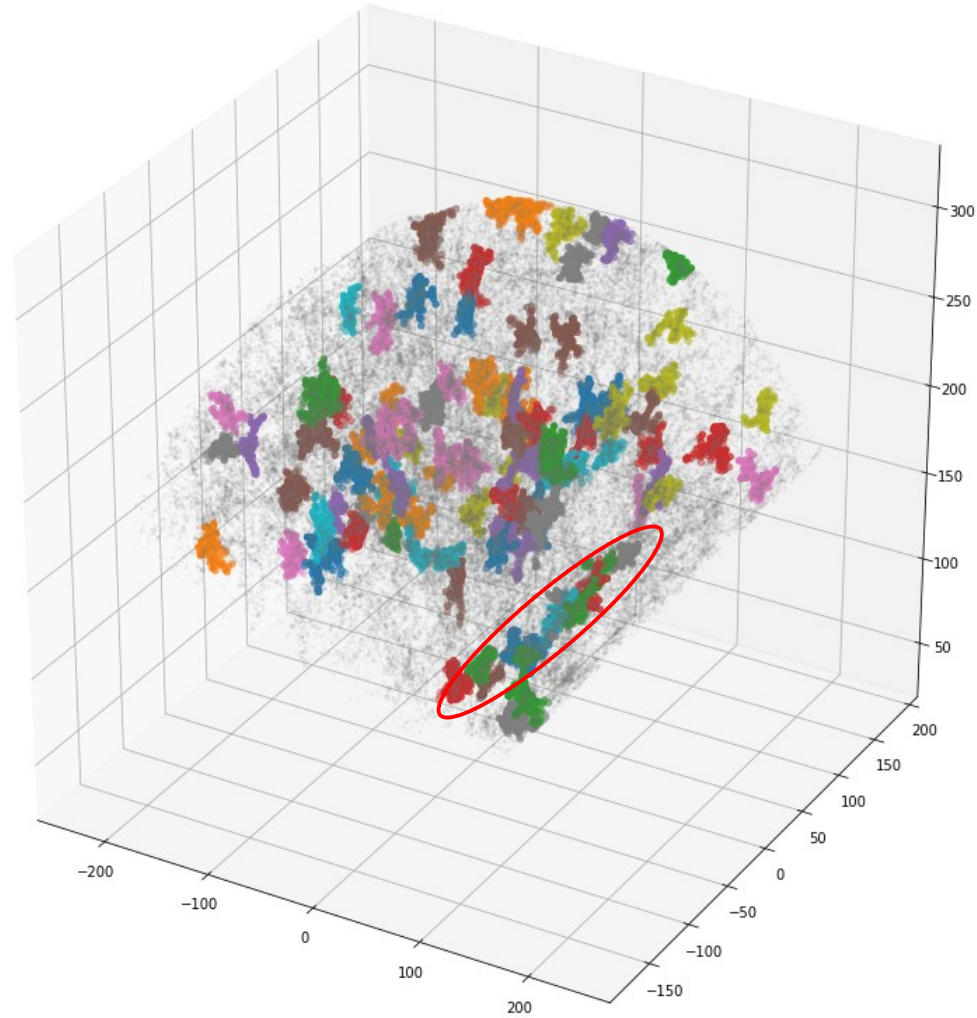
MGS
With largest
clusters

Total:111

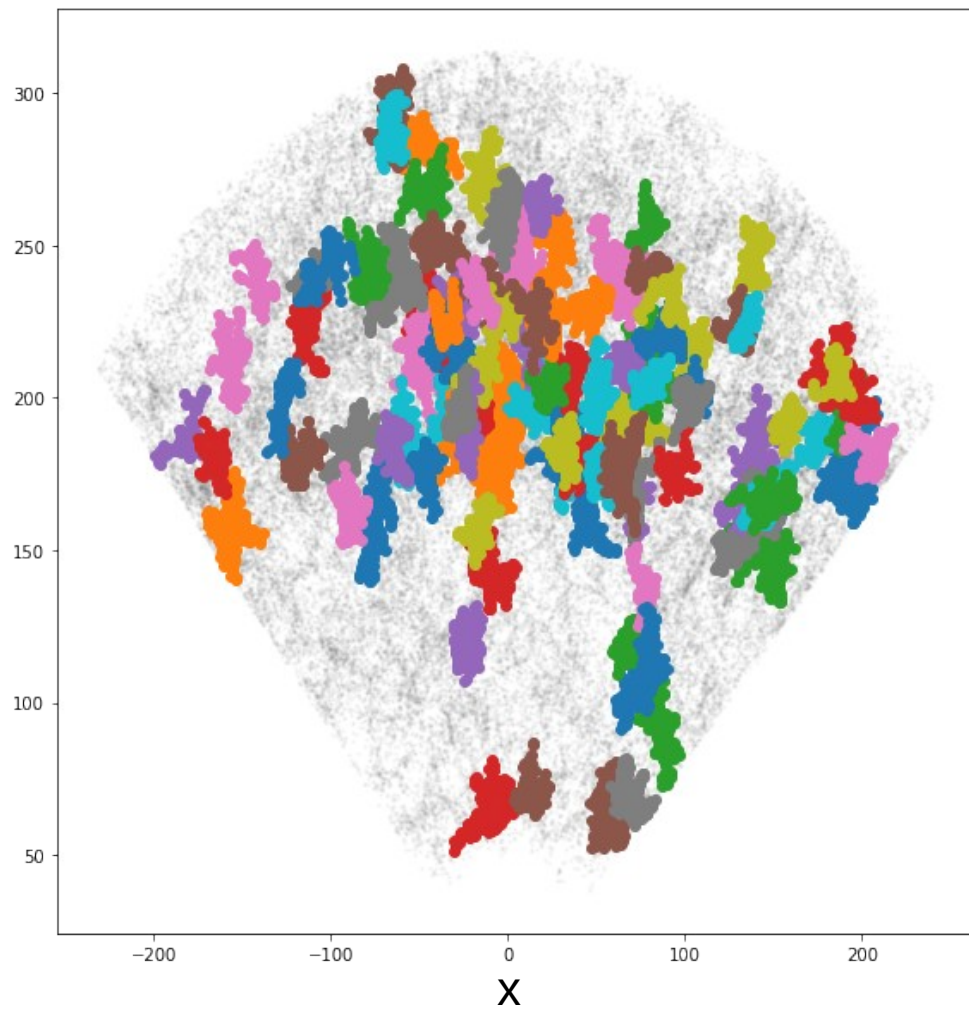
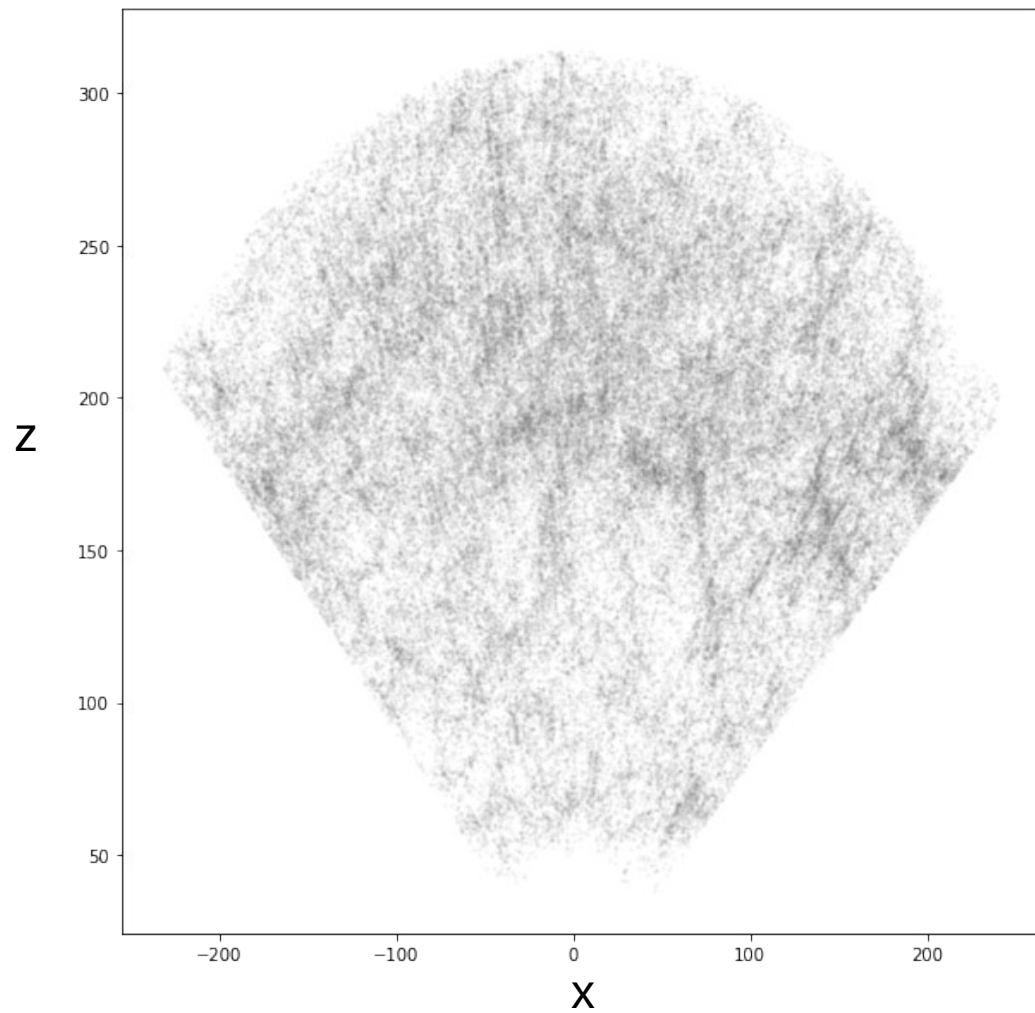


MGS
With largest
clusters

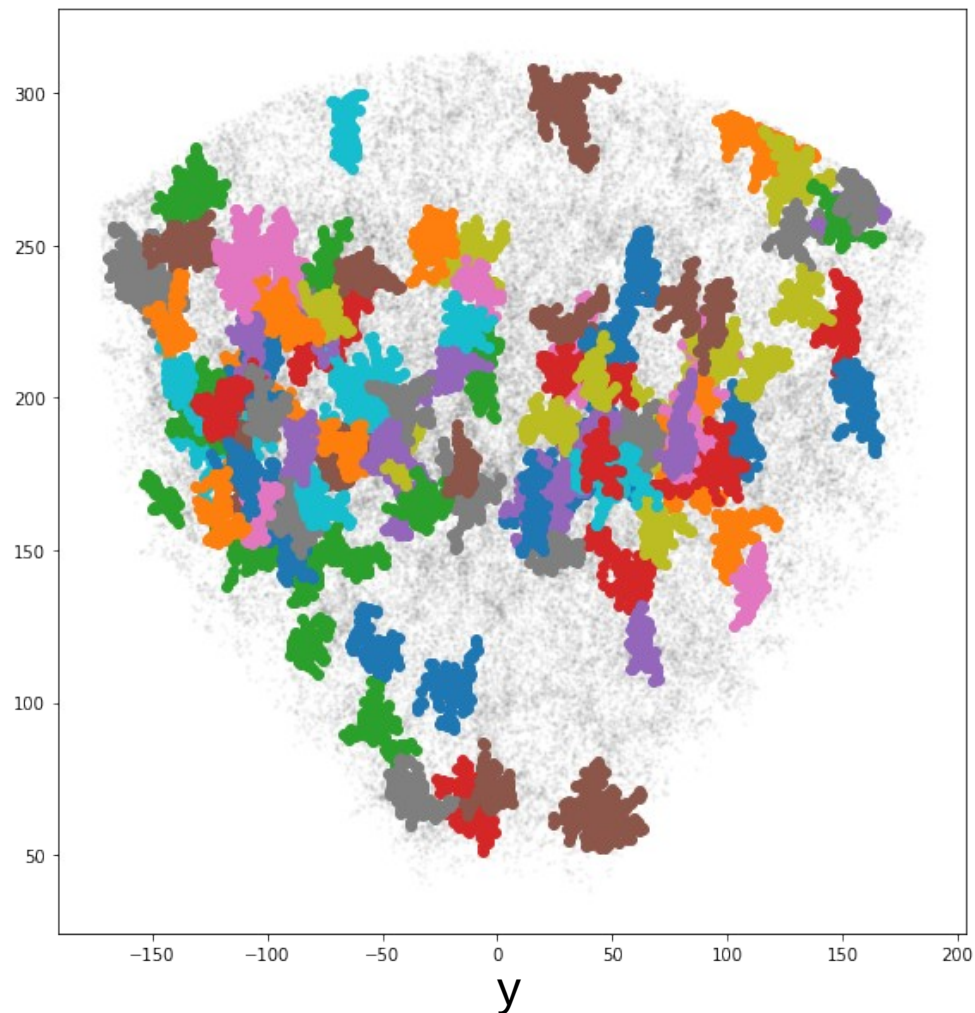
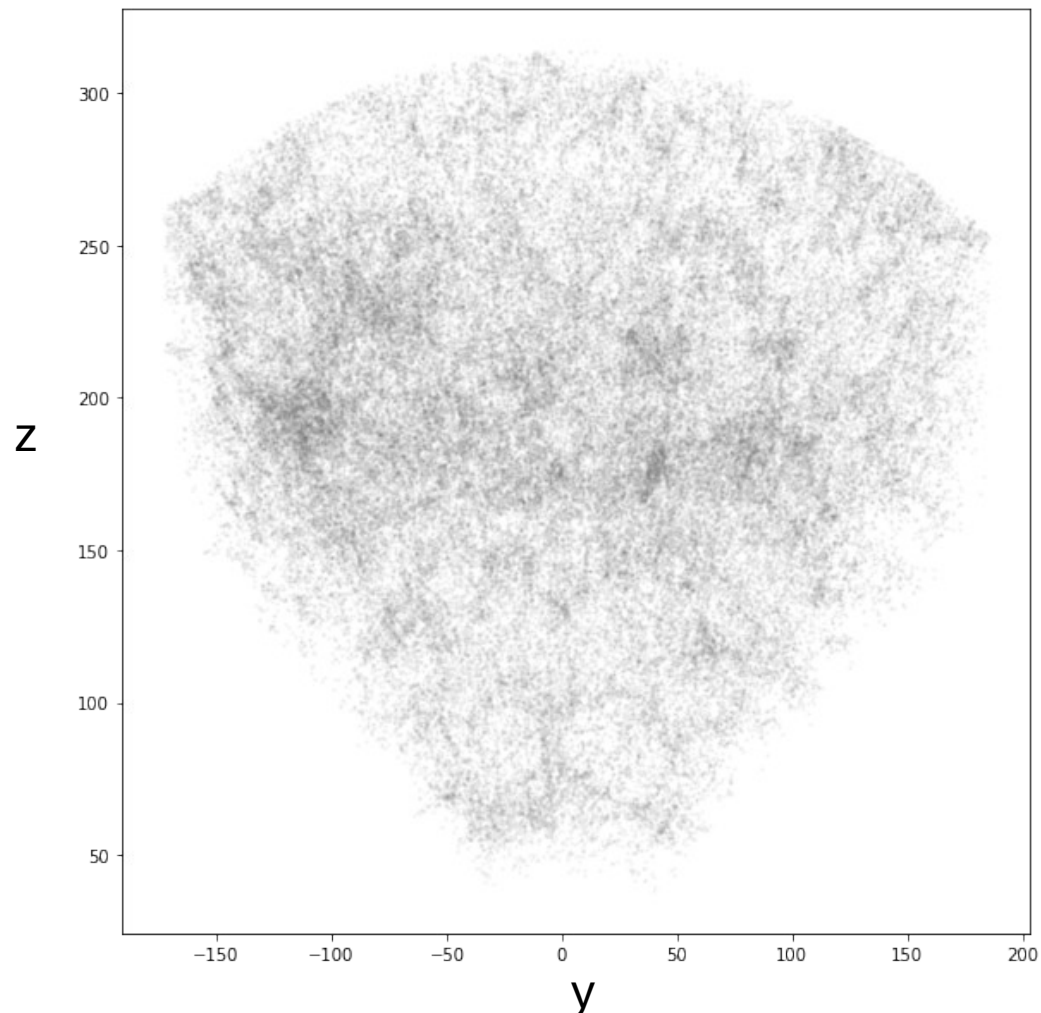
Total:111



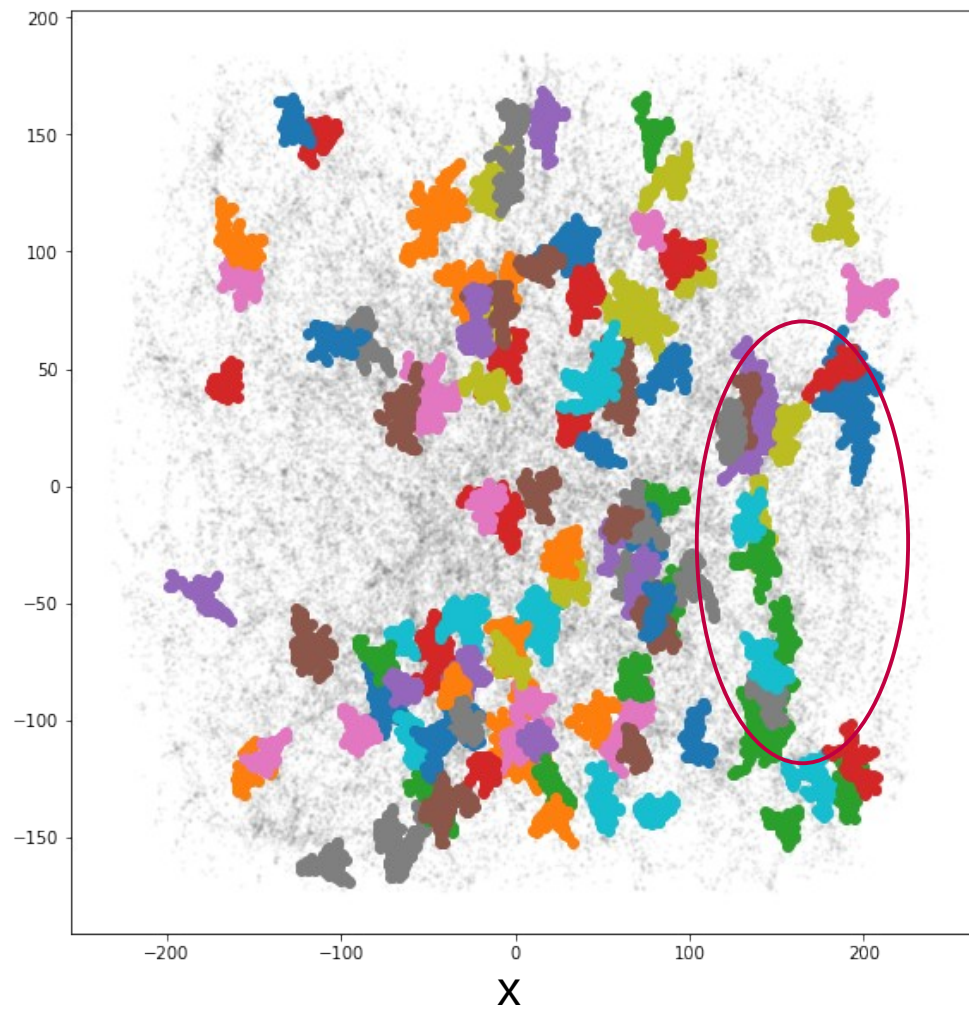
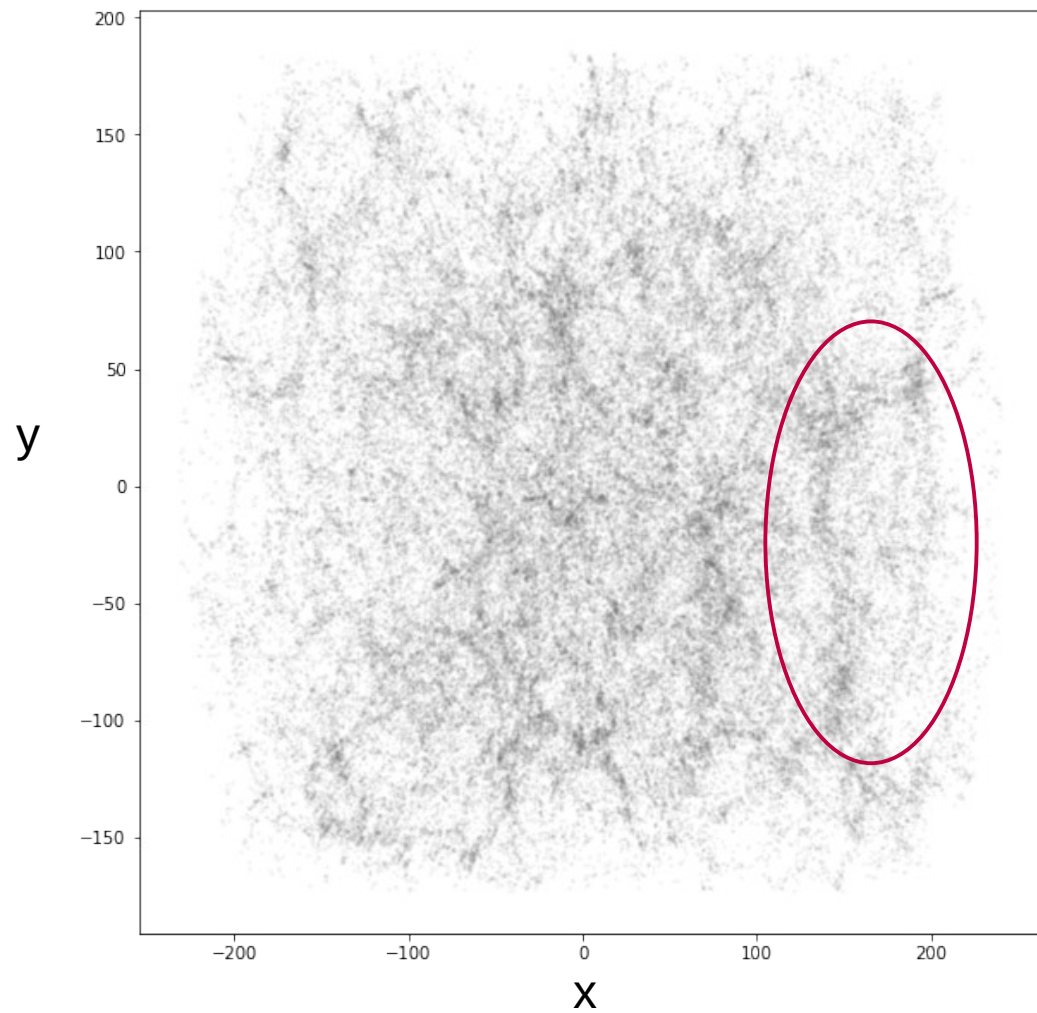
MGS for xz-plane



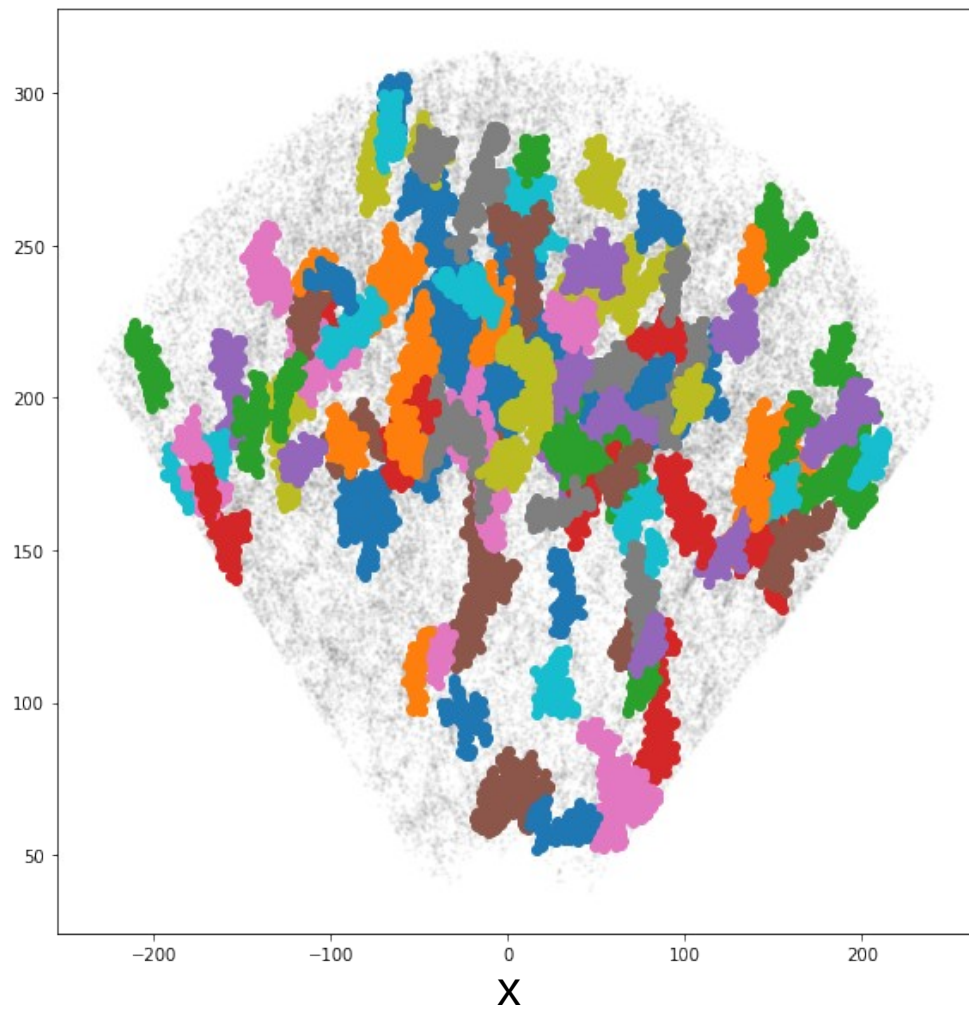
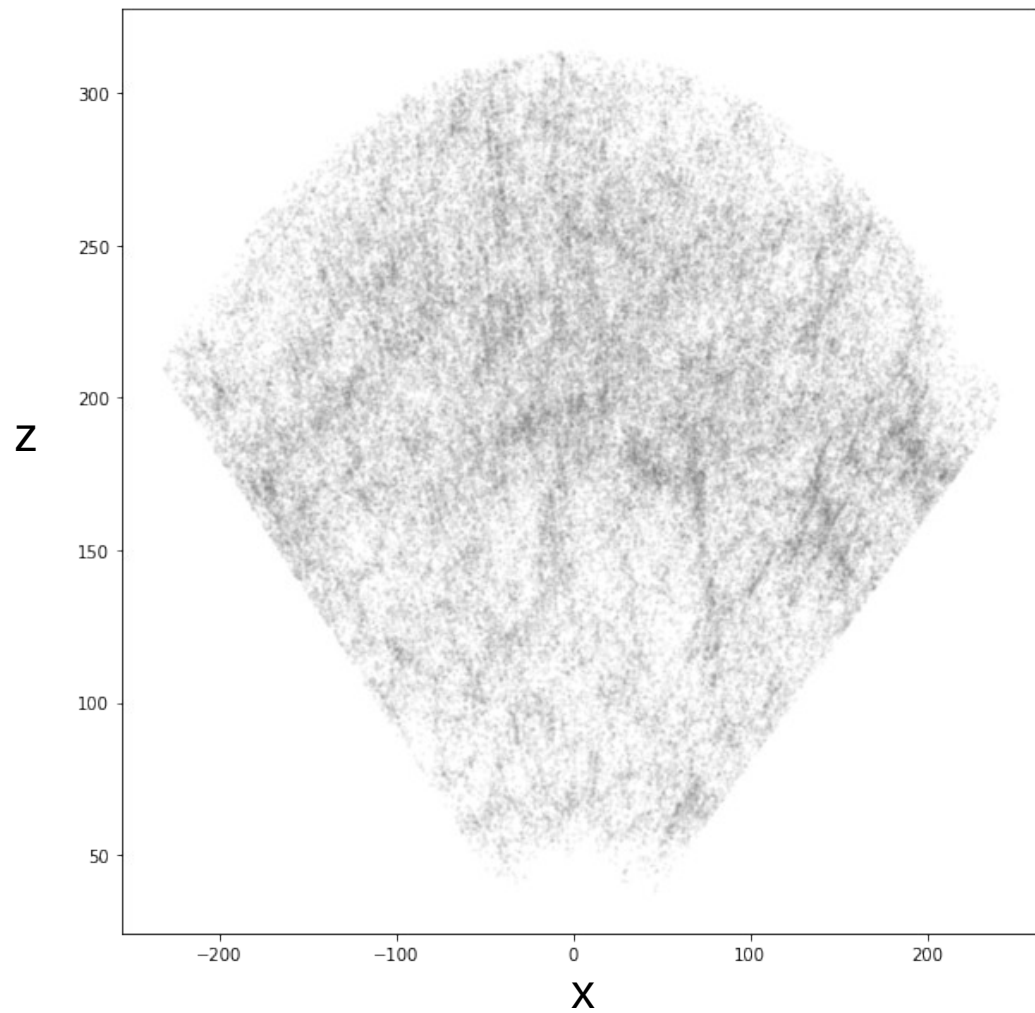
MGS for yz-plane



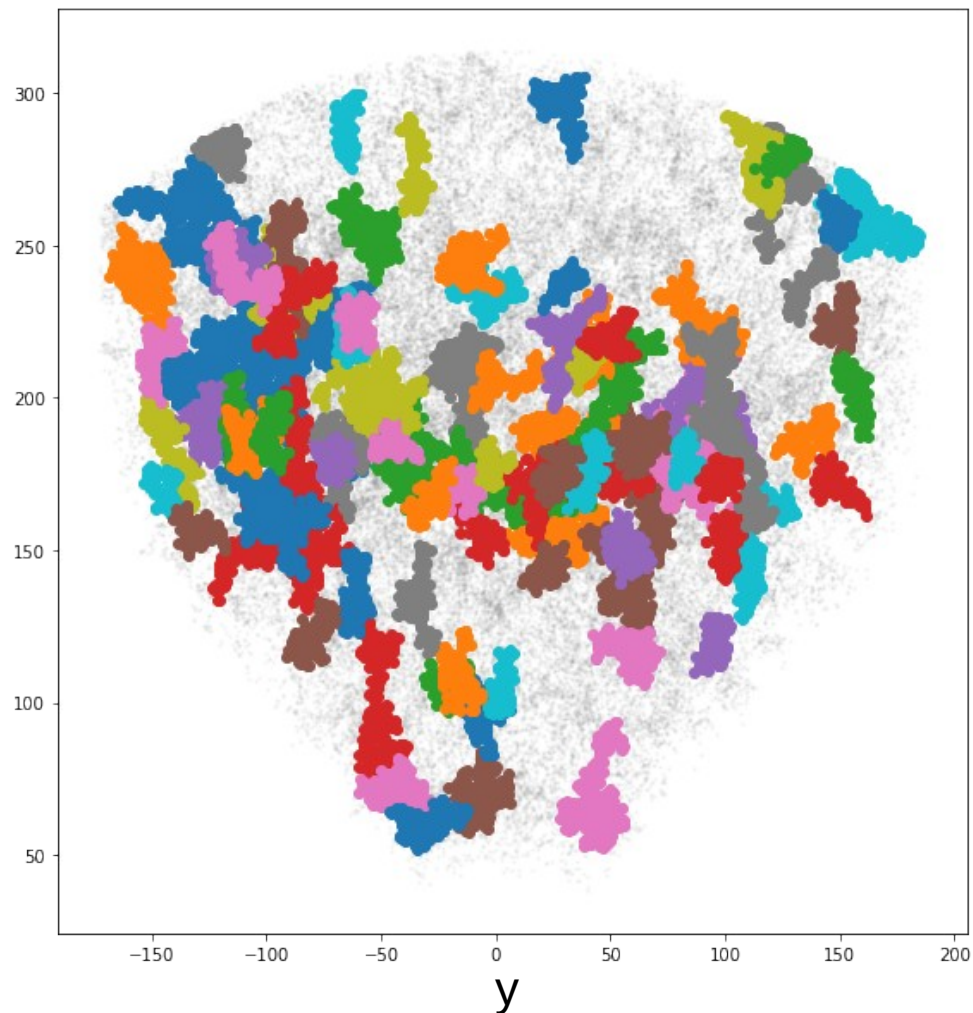
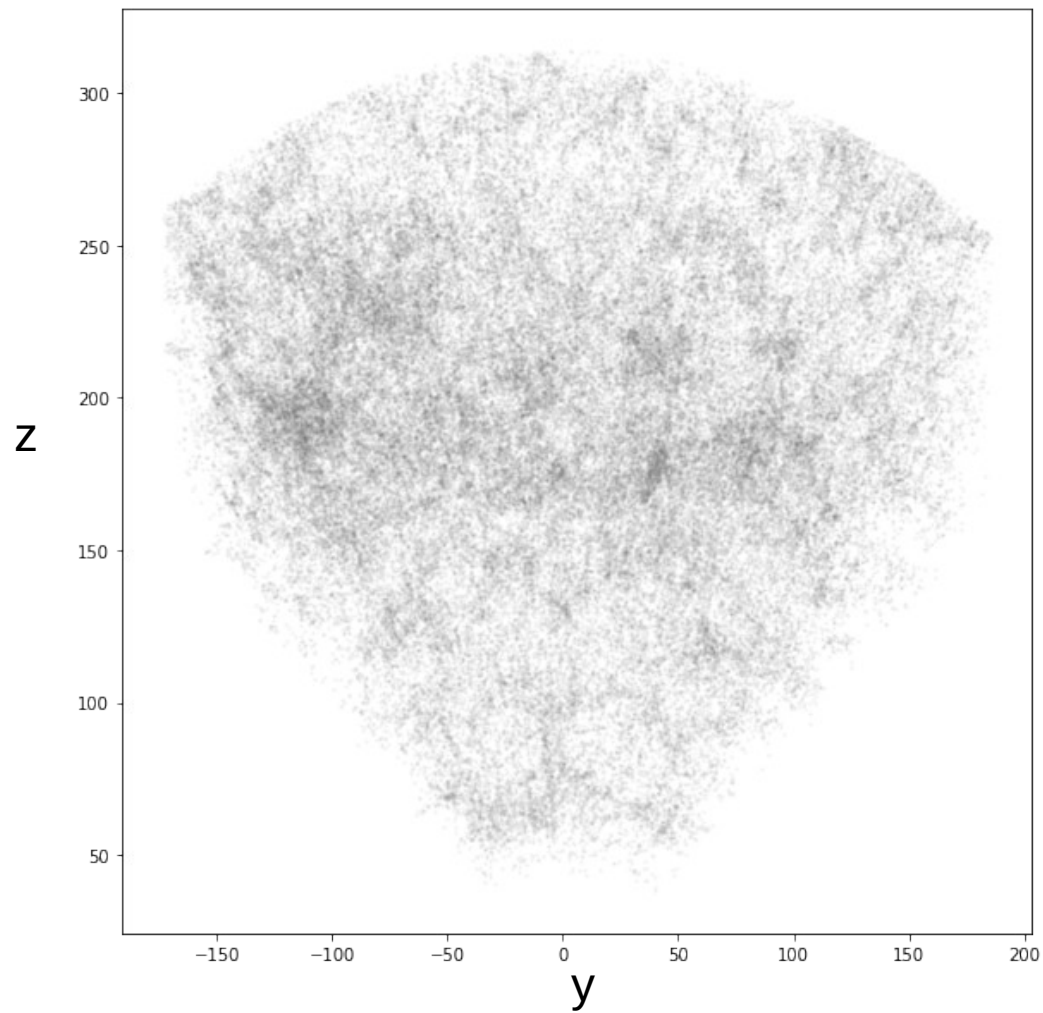
MGS for xy-plane



DBSCAN for xz-plane



DBSCAN for yz-plane



DBSCAN for xy-plane

