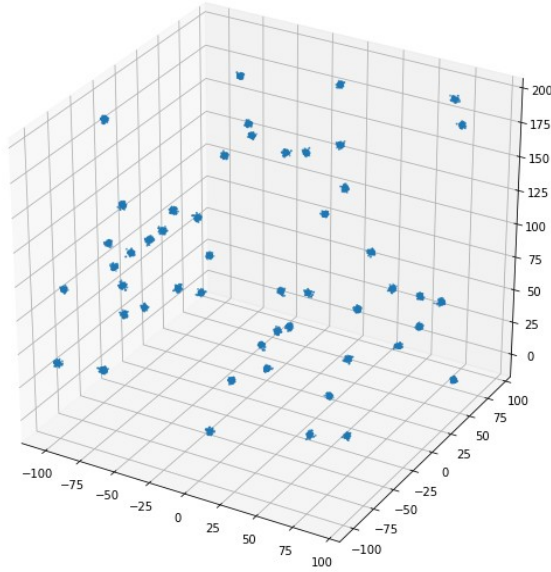


Test 4 Algorithm : random data set



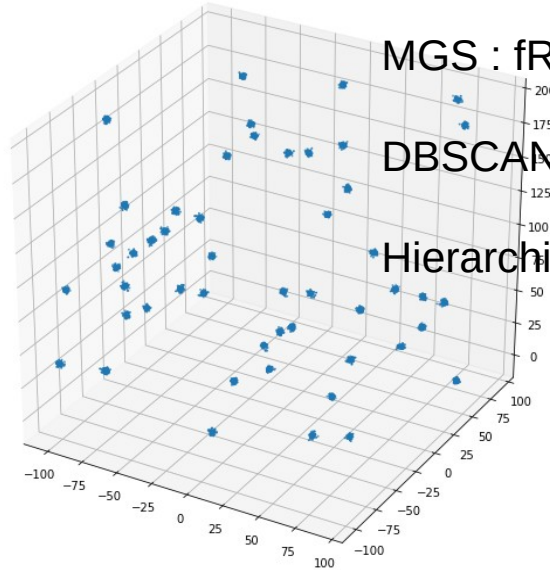
1st data

MST : cut-length (1 – 10)

MGS : fResolution (1 – 10)

DBSCAN : eps (1 – 10), min_sample=10

Hierarchical : distance_threshold (1 - 10)



2nd data

Previous results

Data : 1st data set

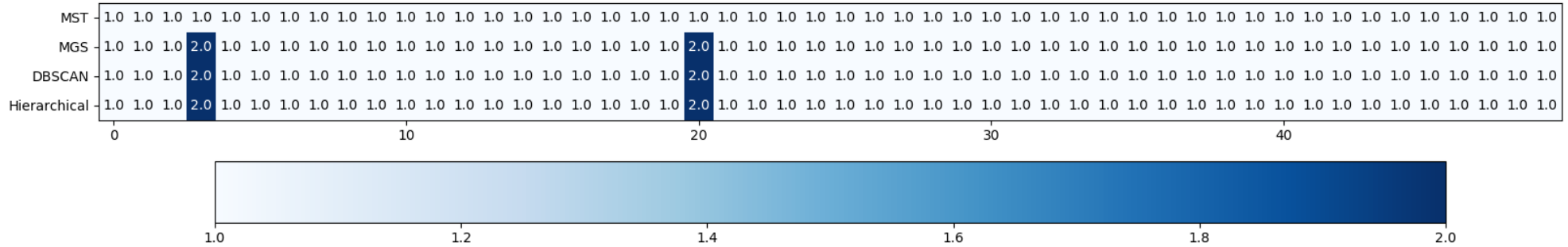
	MST	MGS	DBSCAN	Hierarchical
1	62	458	51	446
2	50	137	50	56
3	50	63	50	50
4	50	51	50	50
5	50	50	50	50
6	50	50	50	50
7	50	50	50	50
8	50	50	50	50
9	50	49	49	49
10	50	49	49	49

Data : 2nd data set

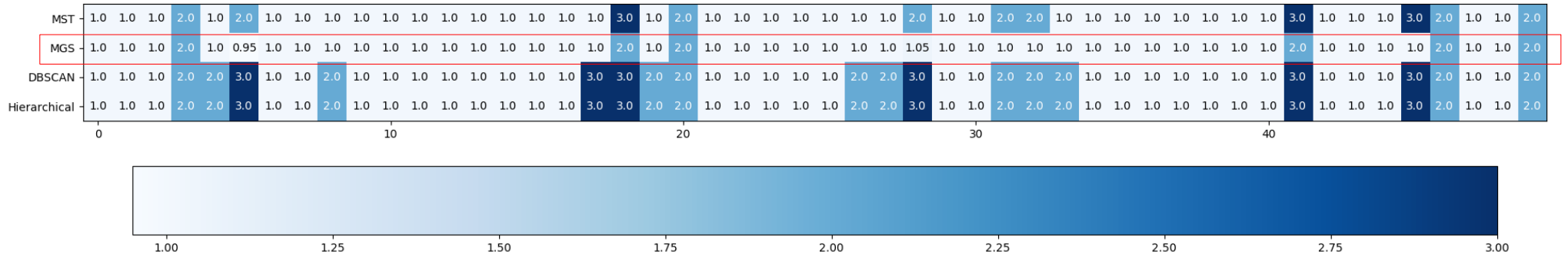
	MST	MGS	DBSCAN	Hierarchical
1	112	94	None	4368
2	236	410	18	1756
3	66	133	53	559
4	50	60	50	195
5	47	51	48	84
6	45	49	46	53
7	45	49	44	48
8	44	48	44	46
9	44	47	49	44
10	44	47	40	40

Efficiency of 4 algorithms

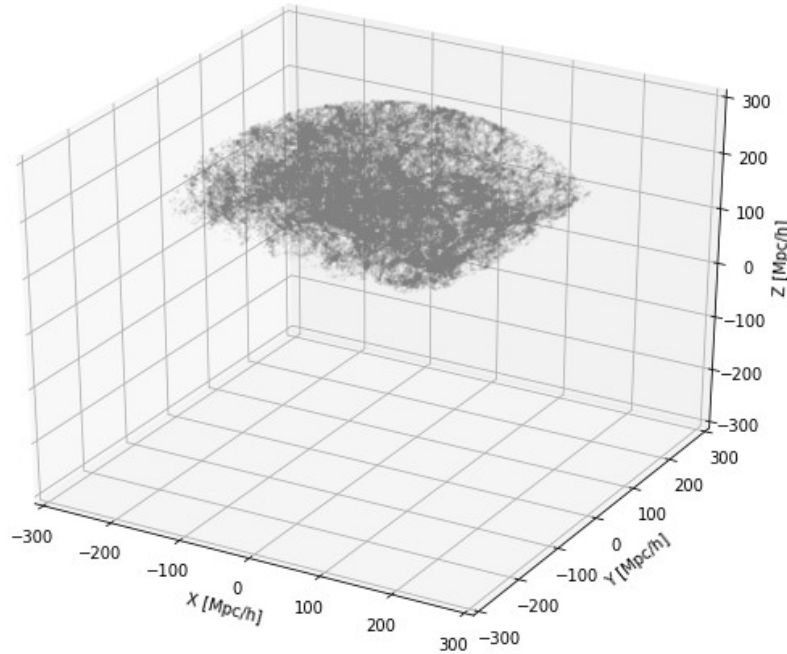
1st data



2nd data



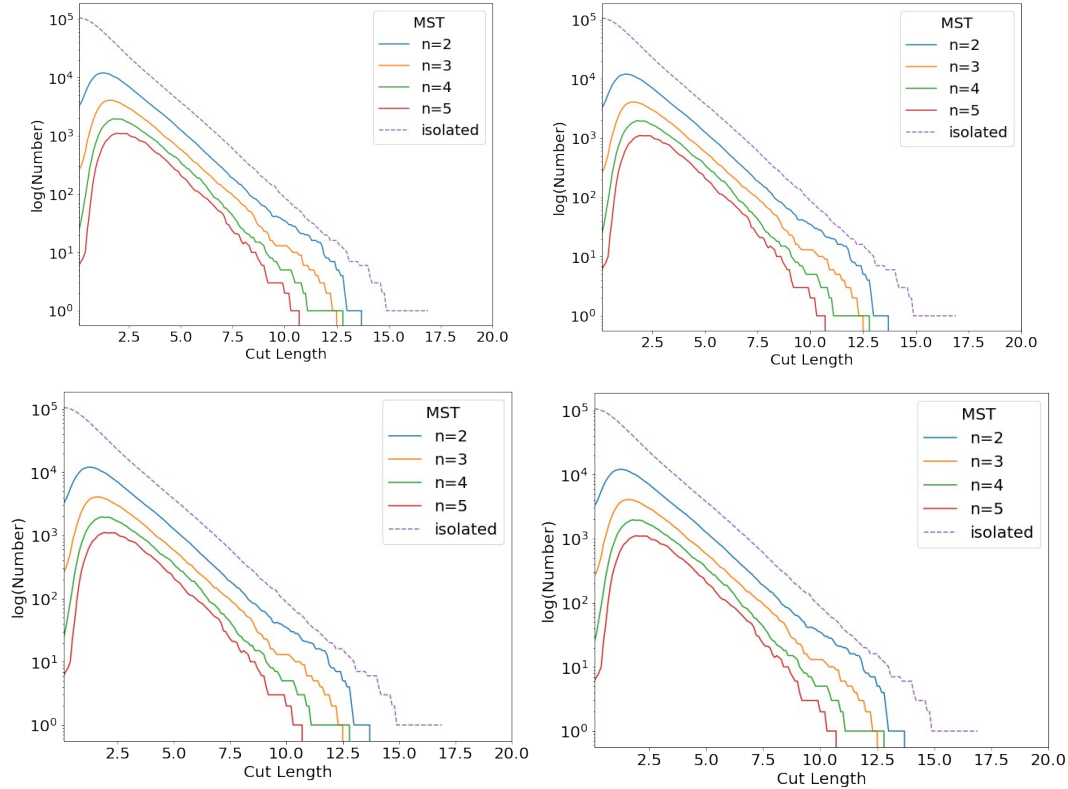
Test 4 Algorithm : Real data



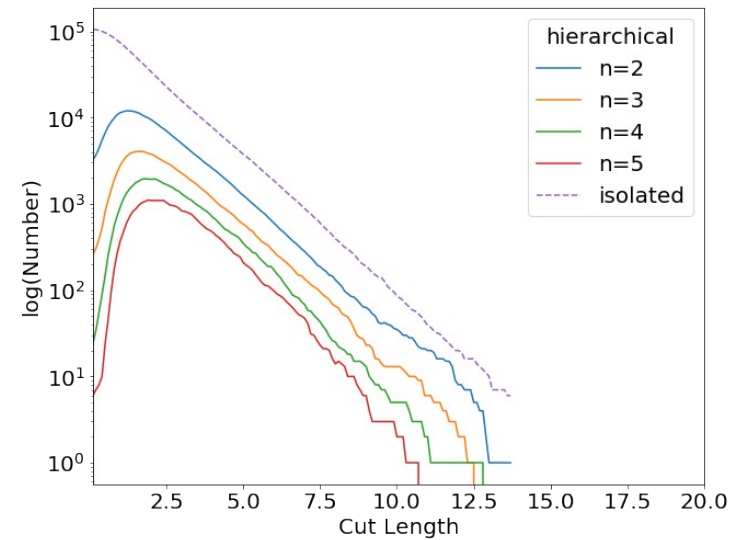
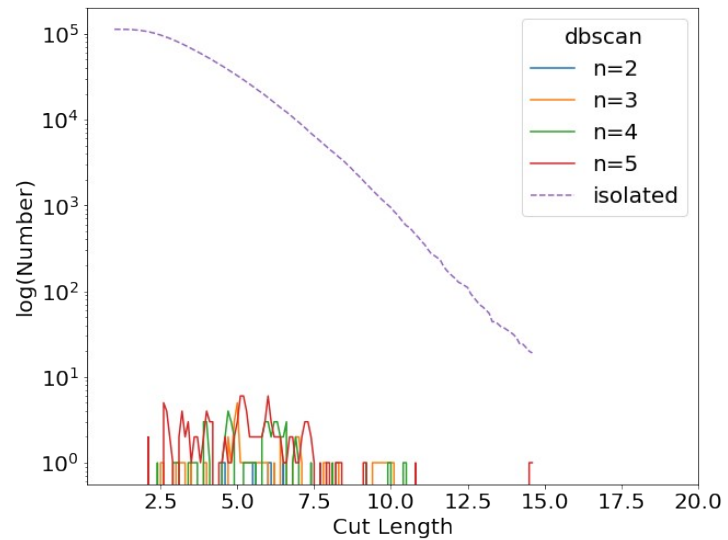
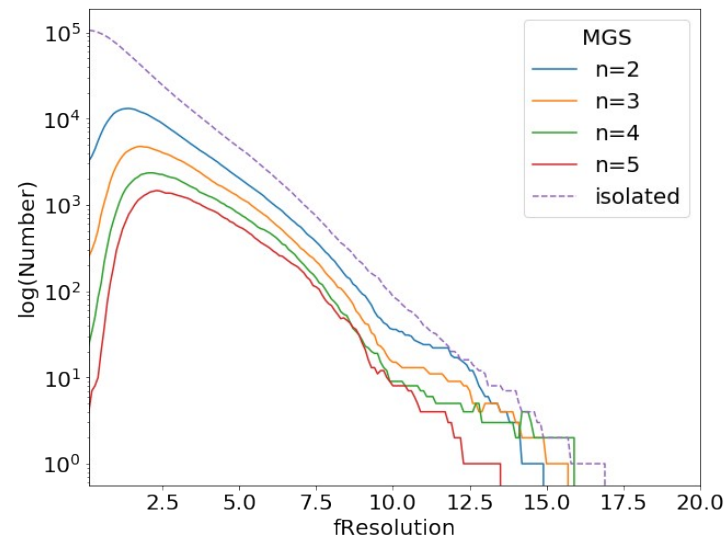
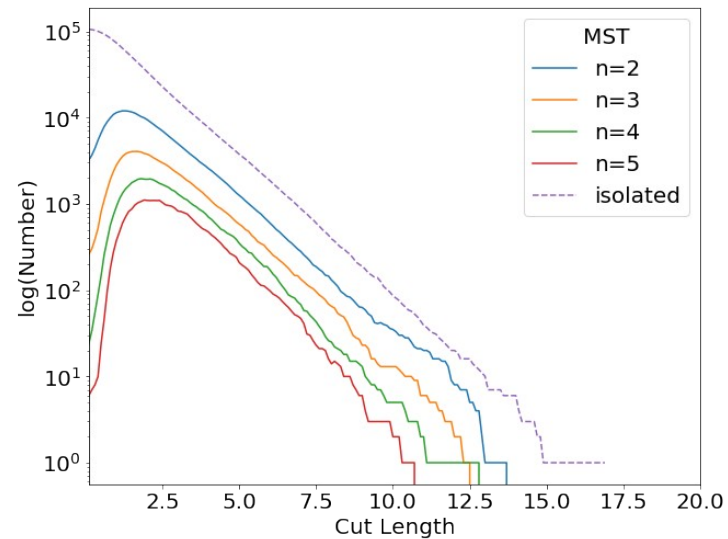
- Data : kias vagc for dr7

Mr20.0 ; luminosity cut = -20.0

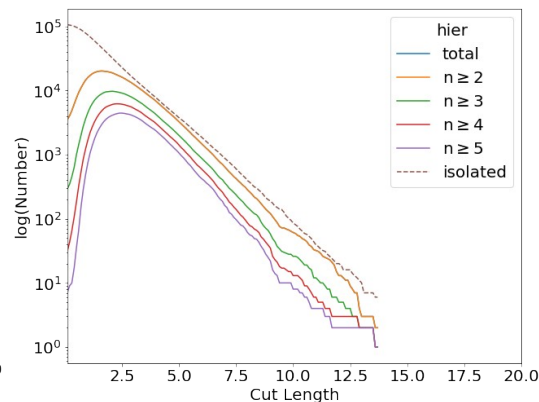
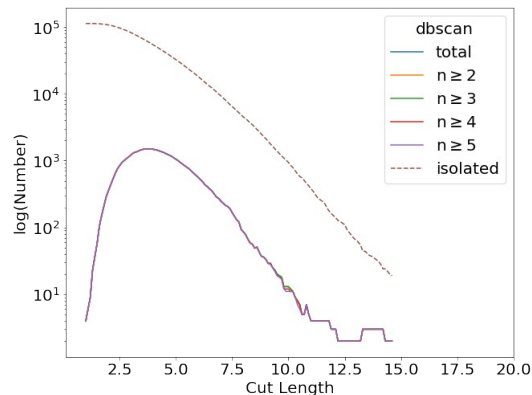
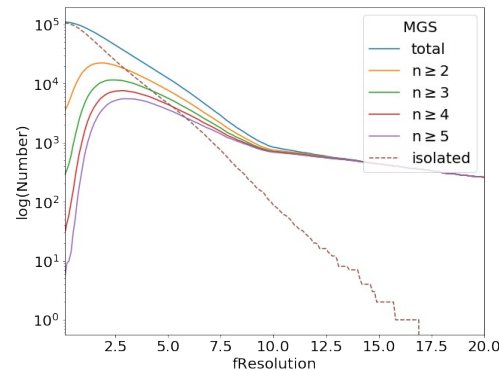
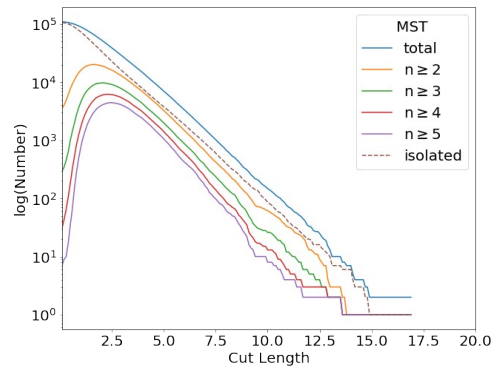
4 Algorithm comparison : 1



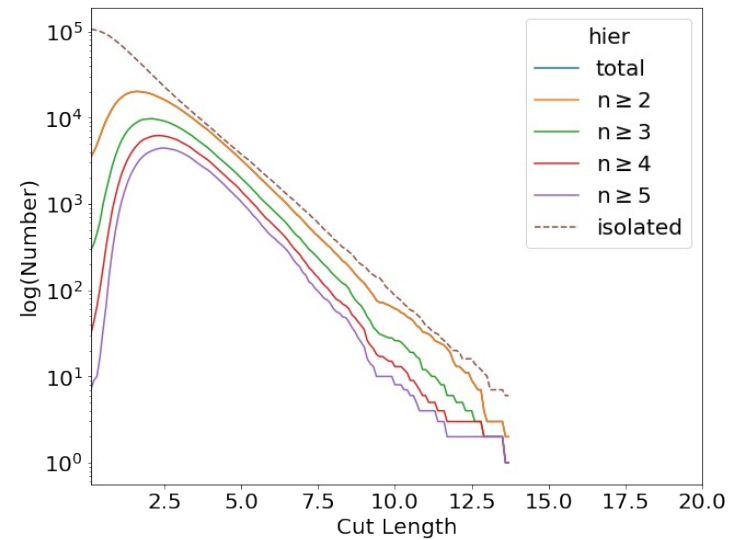
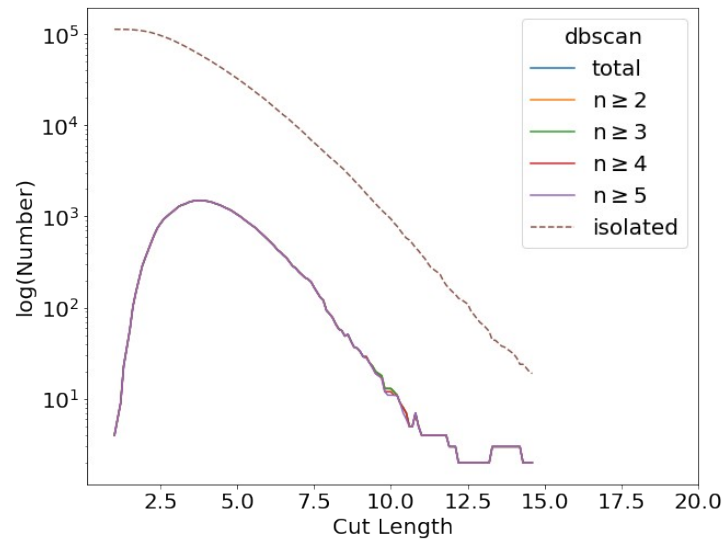
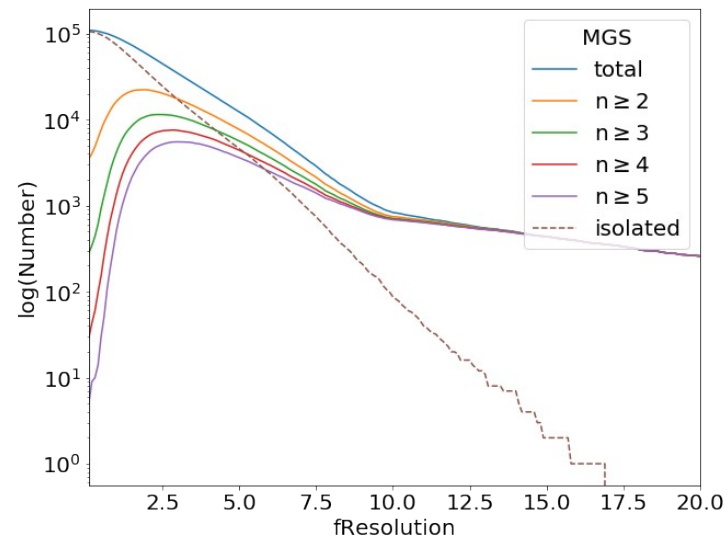
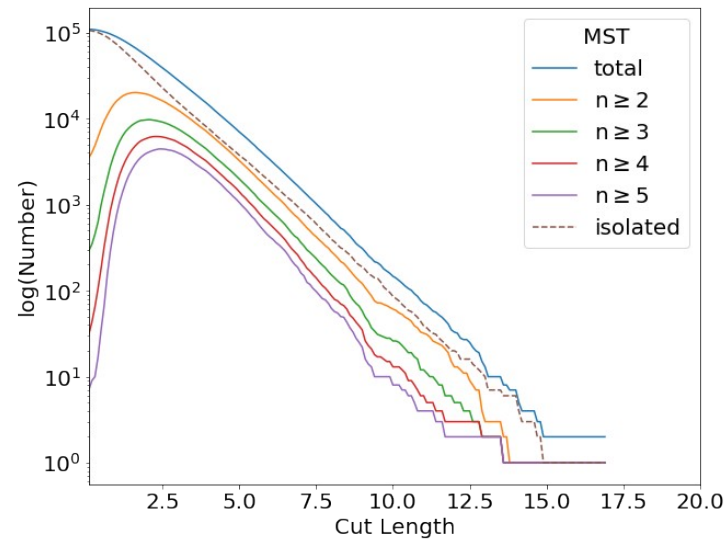
- Changing the cut-length
- Check # of clusters with # of galaxies is 2,3,4,5
- Isolated galaxies mean not clustered galaxies



4 Algorithm comparison : 2



- Changing the cut-length
- Check # of clusters with # of galaxies is larger than 2,3,4,5



4 Algorithm comparison : 3

- Changing the cut-length
- Check 1st and 2nd largest cluster

