

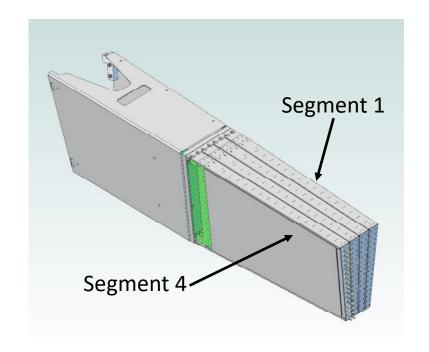
EUROPEAN SPALLATION SOURCE

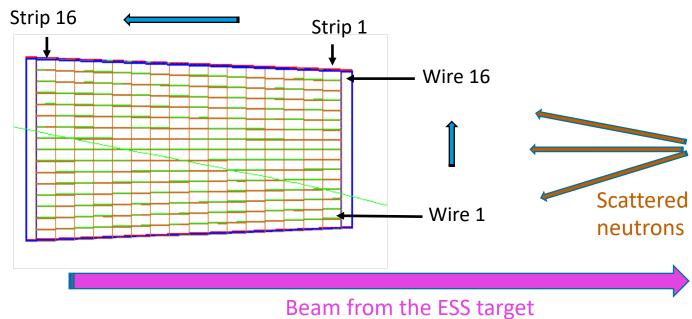


GEANT4 voxel shapes for the DREAM EndCap detector

Detector geometry, user defined conventions. Example for SUMO3







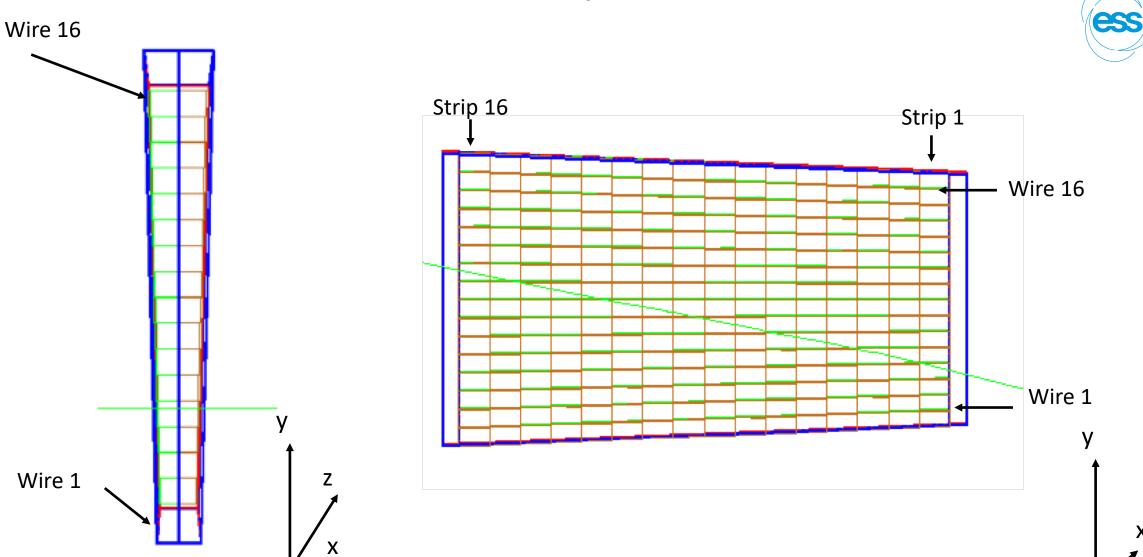
View from above Counter 2 (right of segmented cathode)

Counter 1 (left of segmented cathode)

See also documentation uploaded in github

https://github.com/essdg/dream endcap analysis/tree/refactor/document
ation

User defined conventions and the reference system





Description of the lookup table

		LookupTableDreamEndCap.txt										
3	101	1	1	1	21.10	312.24	-1164.28	4.879	4.879	9.400	9.497	18.375
· 3	101	1	2	1	21.54	321.52	-1162.57	5.122	5.122	9.400	9.497	18.375
3	101	1	3	1	21.98	330.79	-1160.85	5.364	5.364	9.400	9.497	18.375
3	101	1	4	1	22.42	340.07	-1159.14	5.607	5.607	9.400	9.497	18.375
3	101	1	5	1	22.86	349.34	-1157.42	5.849	5.849	9.400	9.497	18.375
3	101	1	6	1	23.30	358.62	-1155.71	6.092	6.092	9.400	9.497	18.375
3	101	1	7	1	23.74	367.89	-1153.99	6.334	6.334	9.400	9.497	18.375
3	101	1	8	1	24.18	377.16	-1152.28	6.577	6.577	9.400	9.497	18.375
3	101	1	9	1	24.62	386.44	-1150.57	6.819	6.819	9.400	9.497	18.375
3	101	1	10	1	25.06	395.71	-1148.85	7.062	7.062	9.400	9.497	18.375
3	101	1	11	1	25.50	404.99	-1147.14	7.304	7.304	9.400	9.497	18.375
3	101	1	12	1	25.94	414.26	-1145.42	7.547	7.547	9.400	9.497	18.375
3	101	1	13	1	26.38	423.54	-1143.71	7.789	7.789	9.400	9.497	18.375
3	101	1	14	1	26.83	432.81	-1141.99	8.032	8.032	9.400	9.497	18.375
3	101	1	15	1	27.27	442.09	-1140.28	8.274	8.274	9.400	9.497	18.375
3	101	1	16	1	27.71	451.36	-1138.57	8.517	8.517	9.400	9.497	18.375
3	101	2	1	1	24.23	314.67	-1182.24	4.879	4.910	9.497	9.595	18.375
3	101	2	2	1	24.67	324.04	-1180.51	5.124	5.155	9.497	9.595	18.375
_		_	_									



Column 1: sumo number

Column 2: 100*sector number + segment number

Column 3: strip number

Column 4: wire number

Column 5: counter number

Column 6: x-position of the voxel center wrt sample in mm

Column 7: y-position of the voxel center wrt sample in mm

Column 8: z-position of the voxel center wrt sample in mm

Column 9: x1 in mm

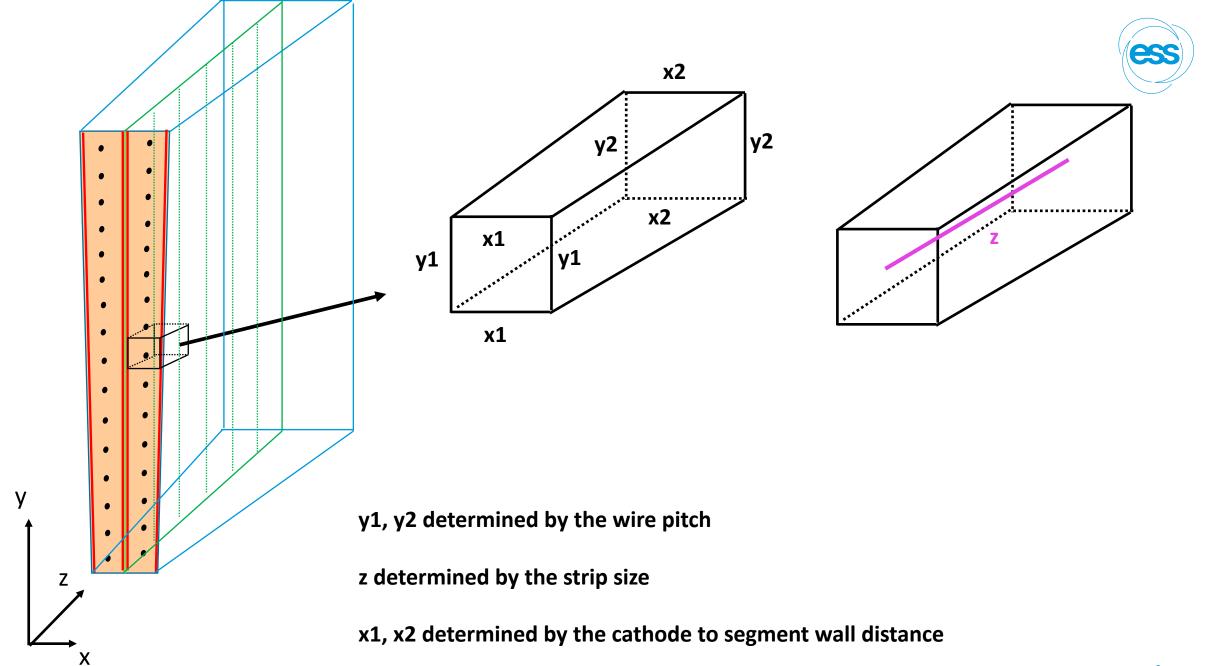
Column 10: x2 in mm

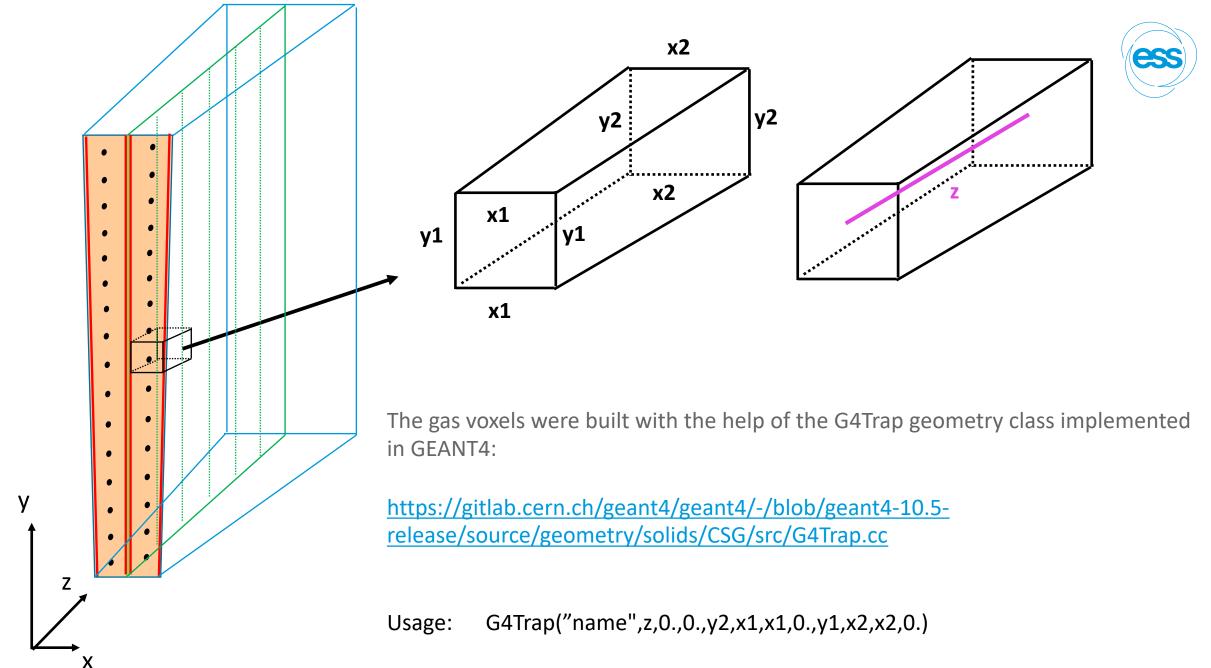
Column 11: y1 in mm

Column 12: y2 in mm

Column 13: z in mm

2020-08-14







Finish presentation