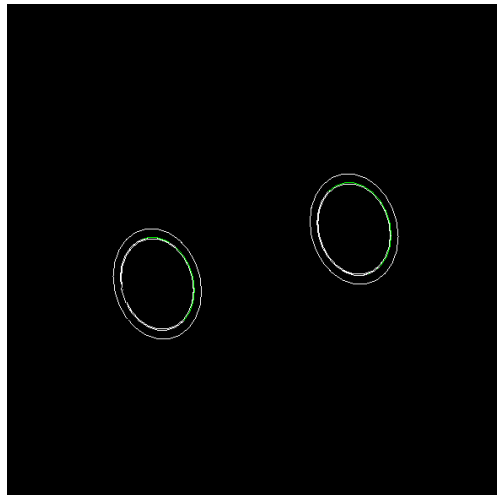
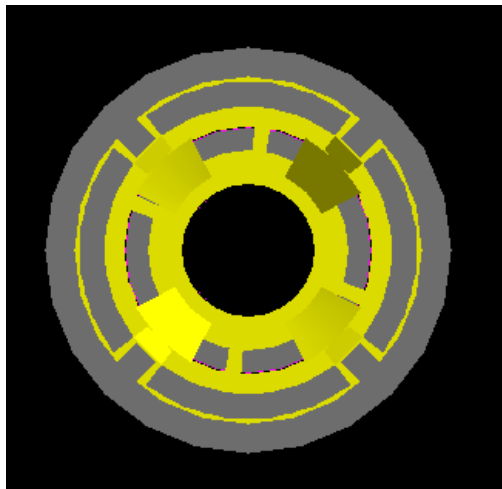


Status report of CGEMGeometry

YINGRUI HOU

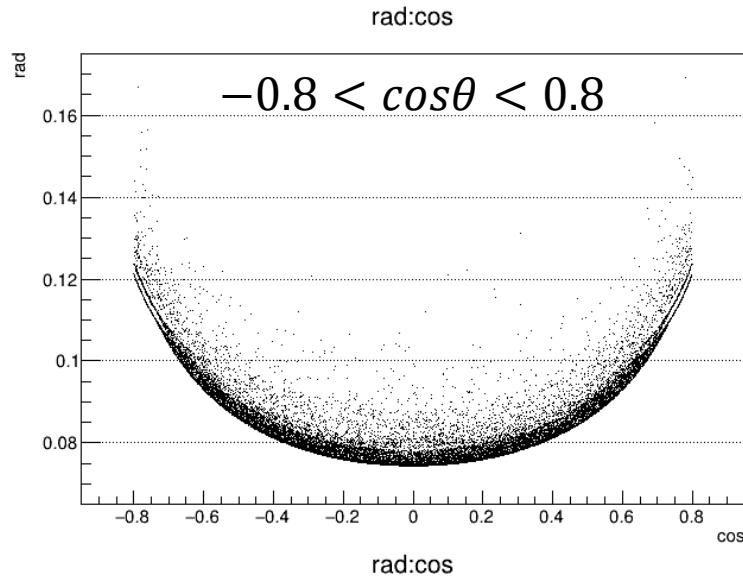
Update on Packages.

- Update the thickness and material parameters of Cathodes, Anodes and GemFoils based on new design. [modified from CgemGeomSvc-00-00-30, also add the changes in 00-00-31]
- Update the construction description of CGEM detector based on new design. [modified from CgemSim-01-00-31, also add the changes in 01-00-32]



Update results of X [without effdesity]

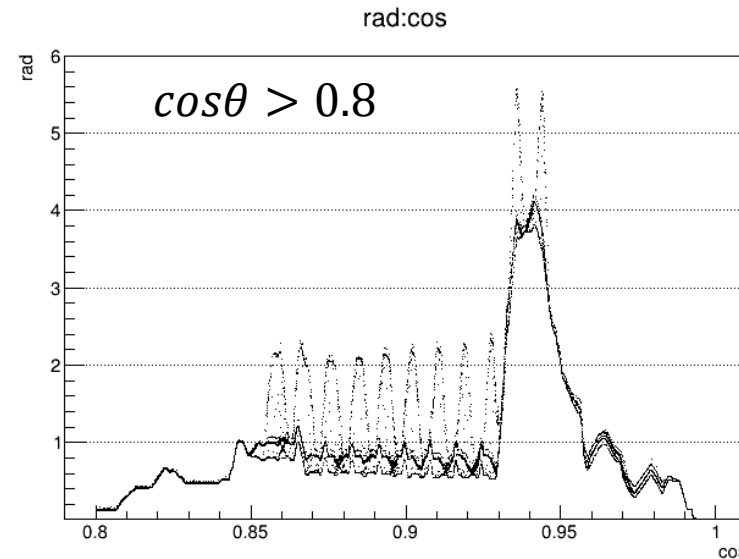
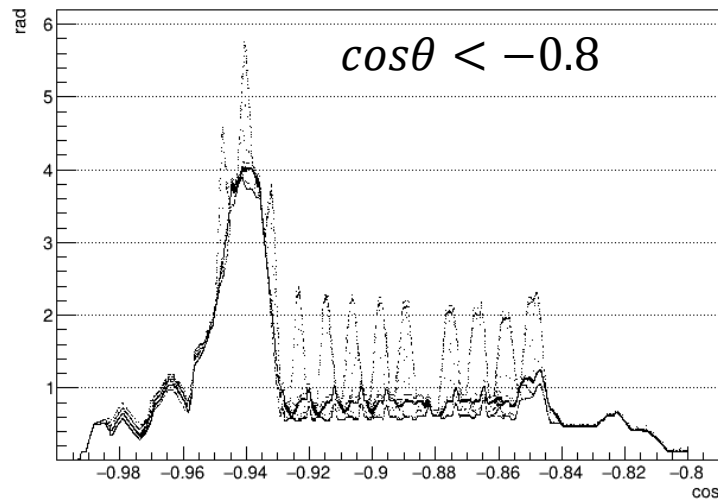
Barrel



- ✓ CGEMBOSS 6.6.5.f
- ✓ BesSim-00-04-16
- ✓ [update Stepping, Event, Run]

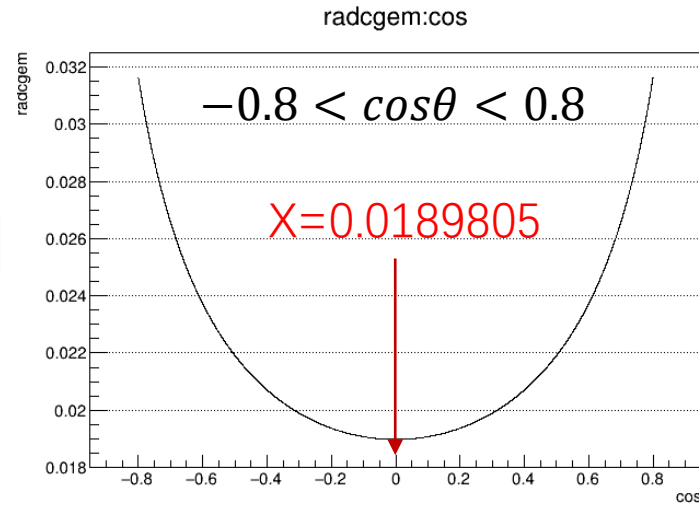
BesSim.Cgem=1;
BesSim.Mdc=1;

Endcap



Update results of X [without effdesity]

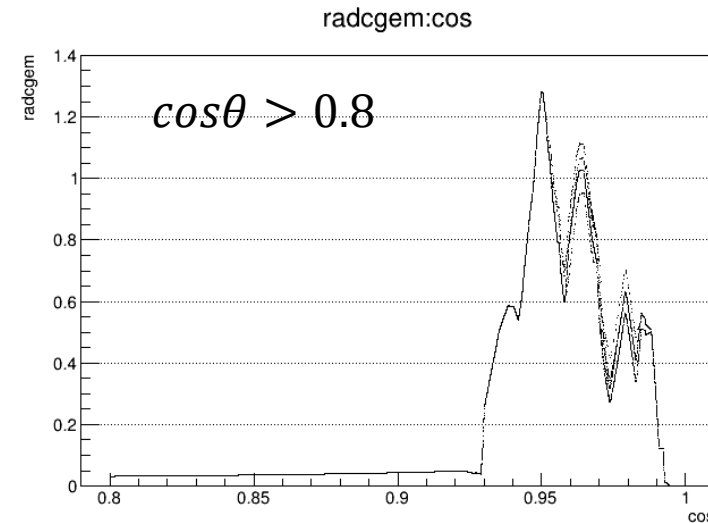
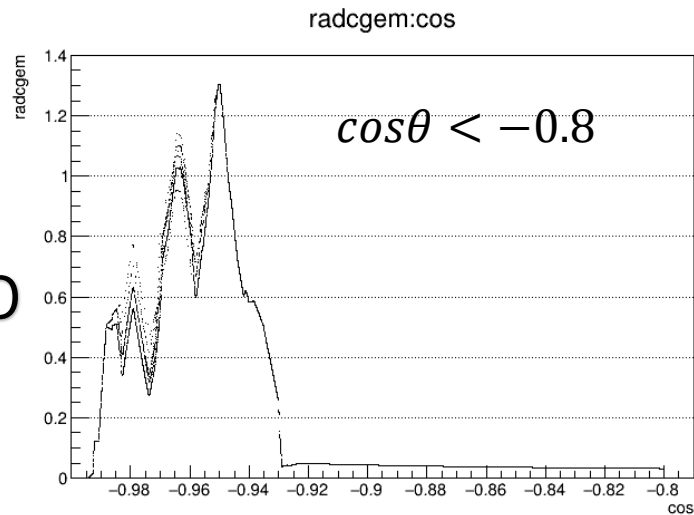
Barrel



- ✓ CGEMBOSS 6.6.5.f
- ✓ BesSim-00-04-16
- ✓ [update Stepping, Event, Run]

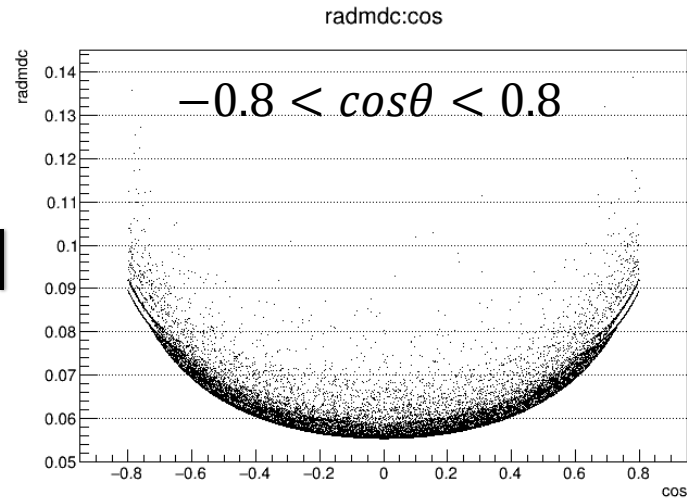
CGEM

Endcap



Update results of X [without effdesity]

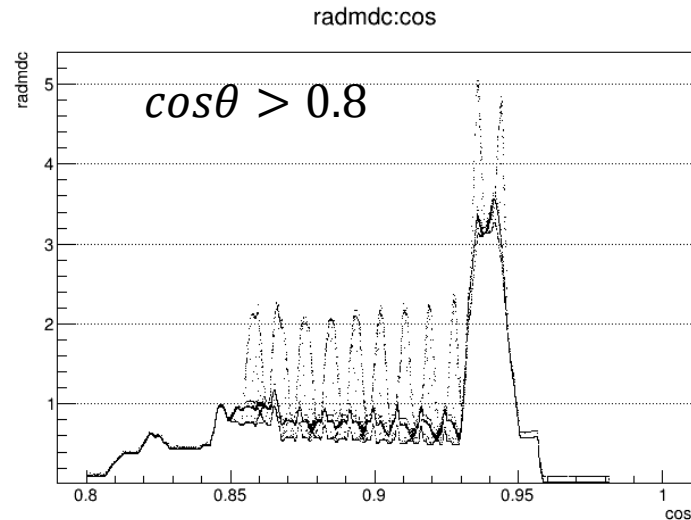
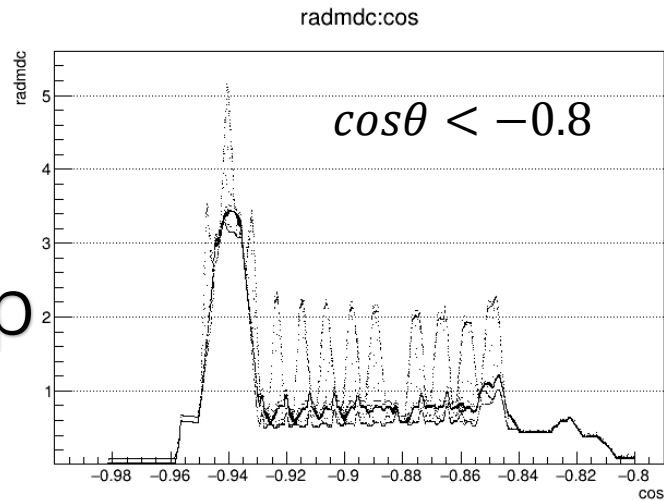
Barrel



- ✓ CGEMBOSS 6.6.5.f
- ✓ BesSim-00-04-16
- ✓ [update Stepping, Event, Run]

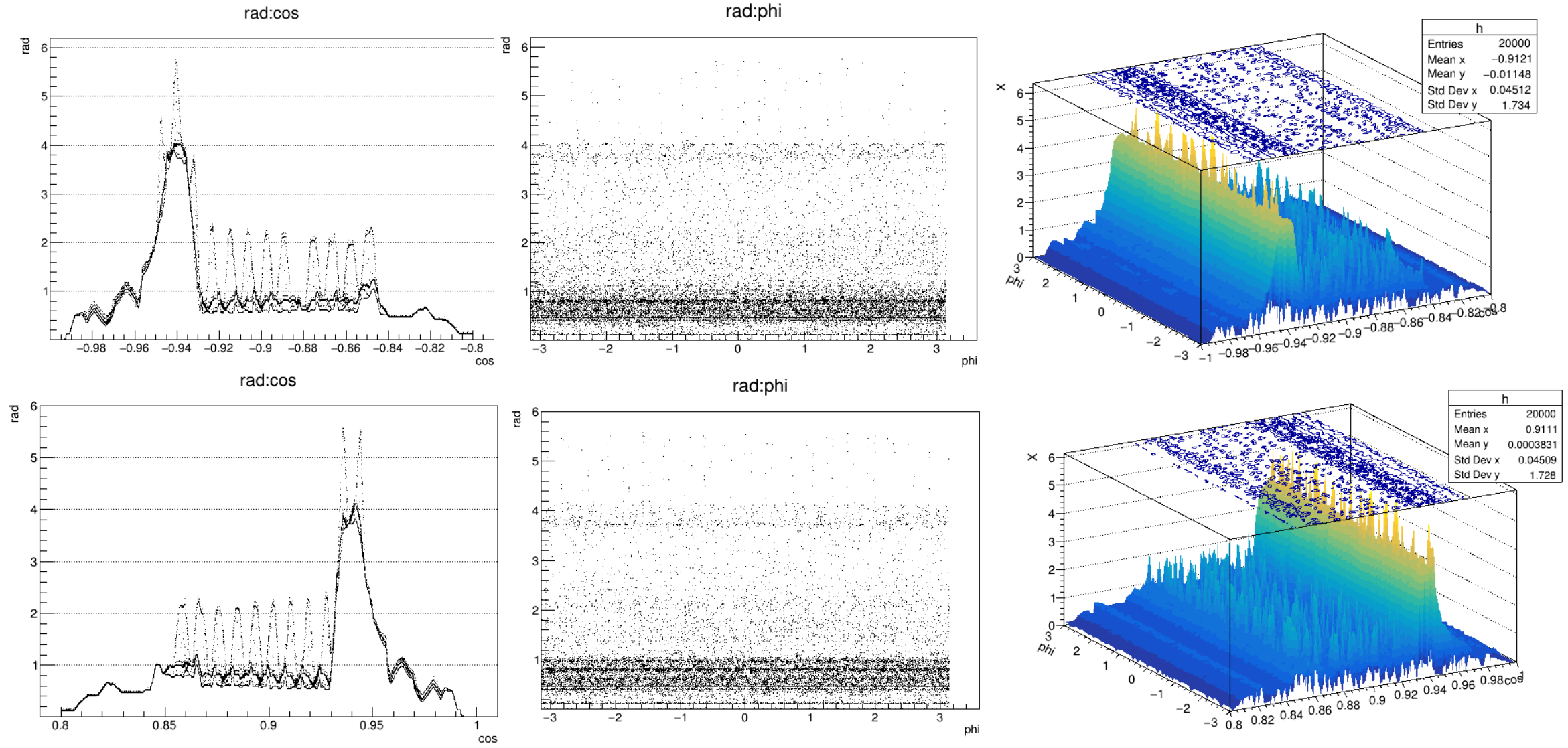
ODC

Endcap

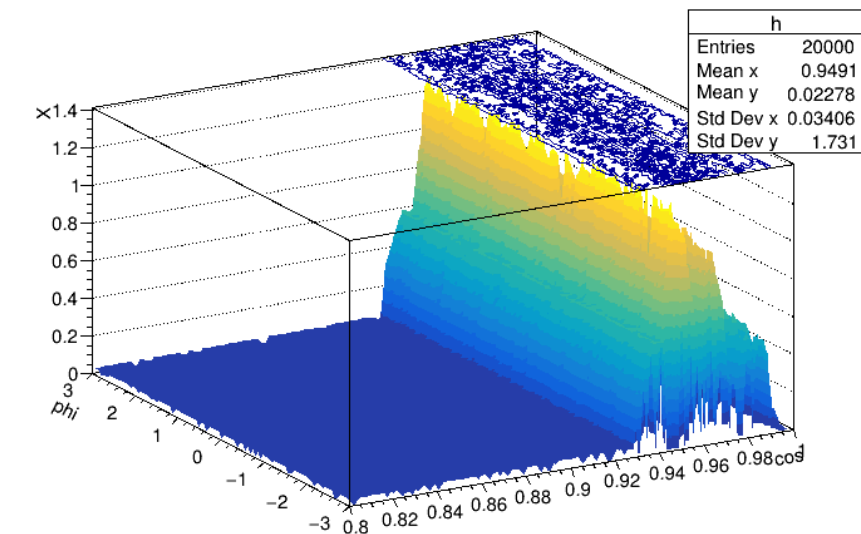
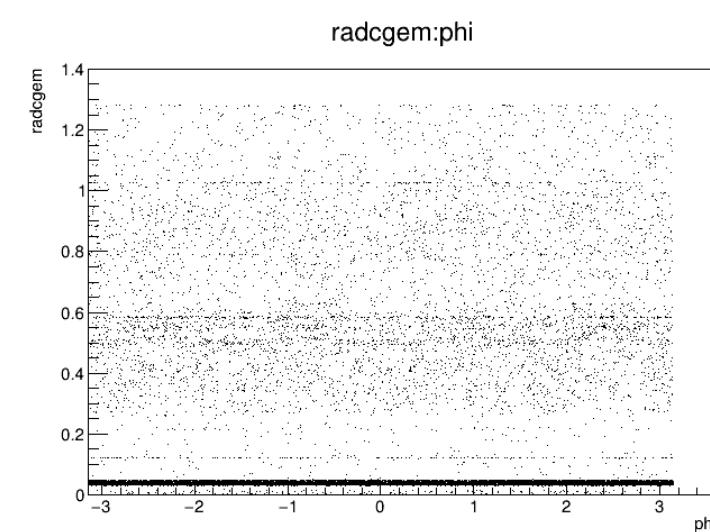
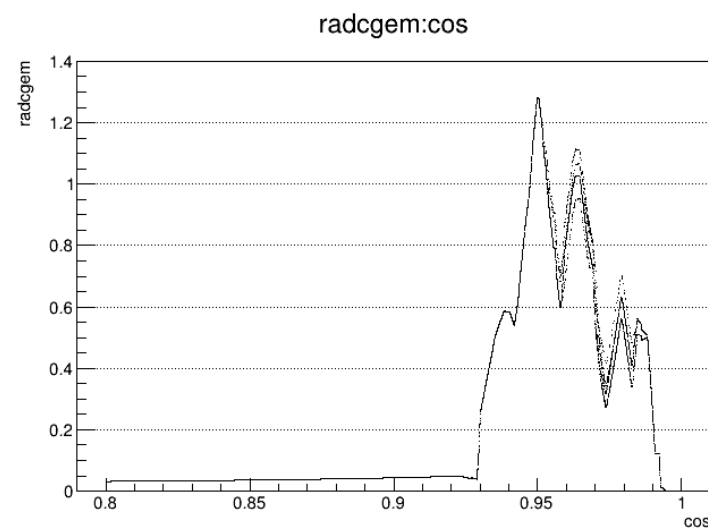
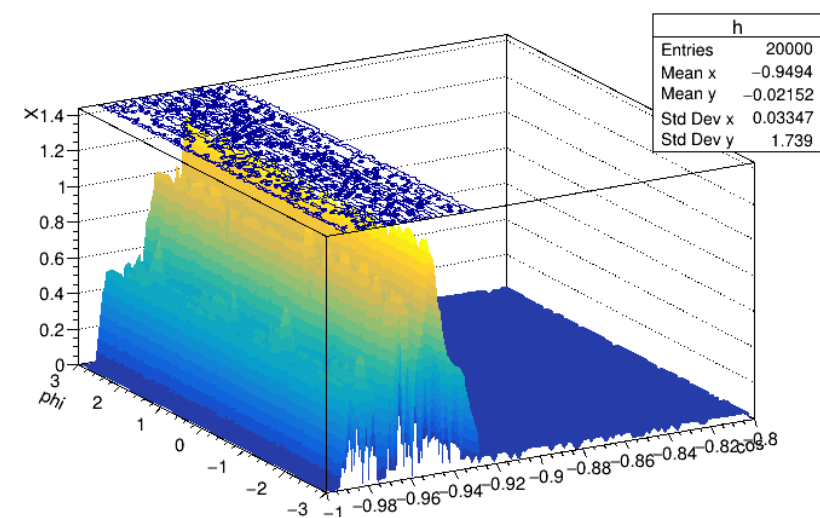
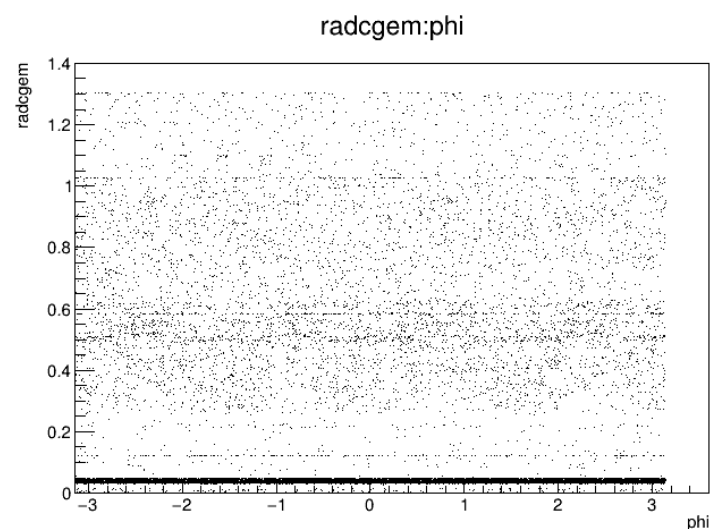
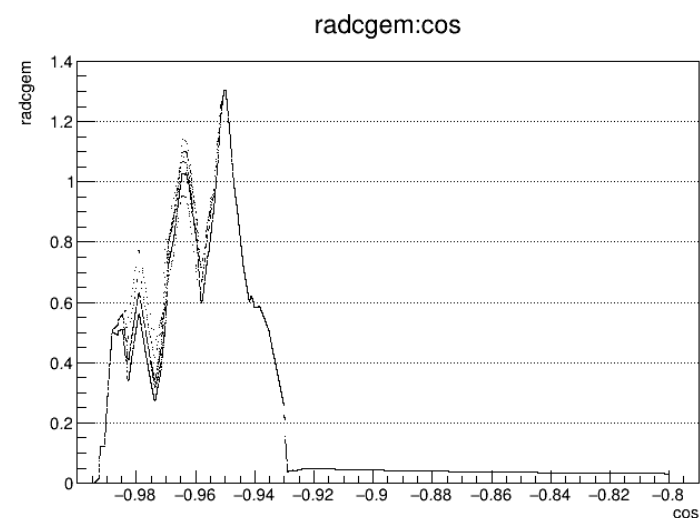


BesSim.Cgem=1;
BesSim.Mdc=1;

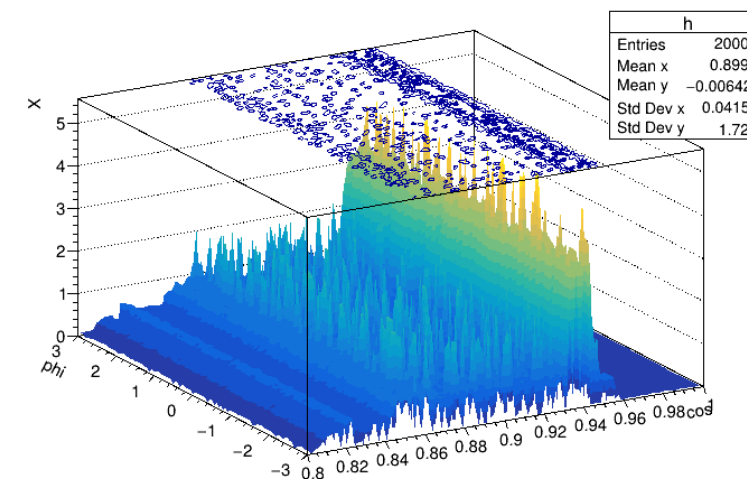
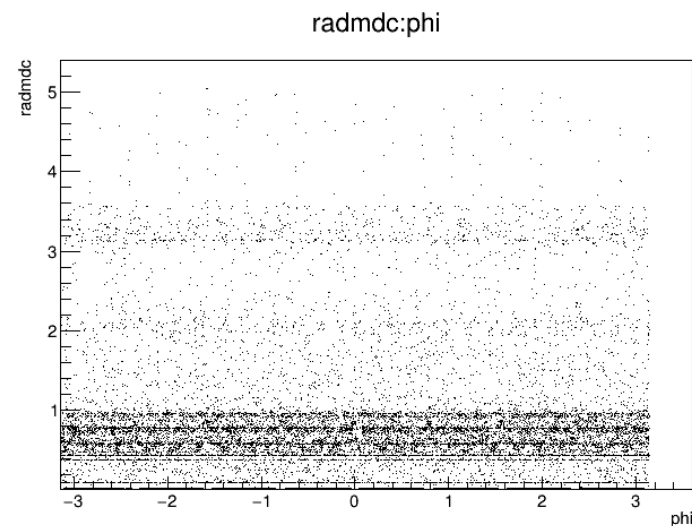
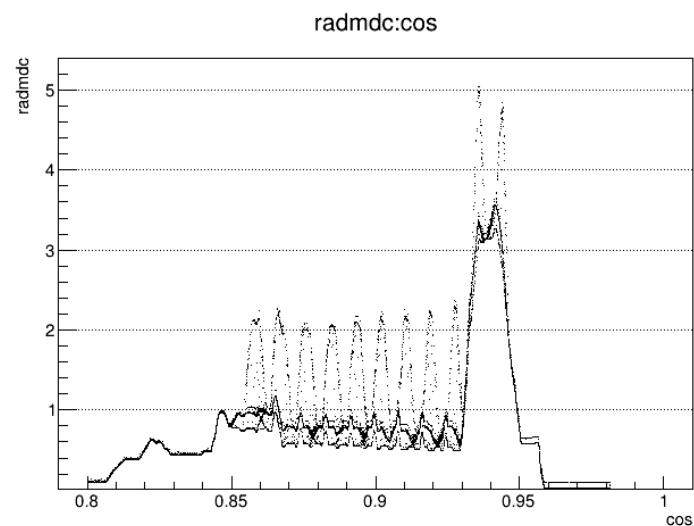
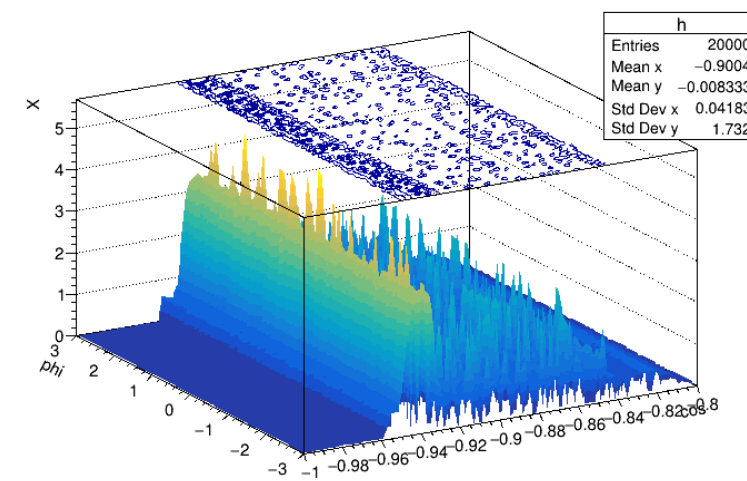
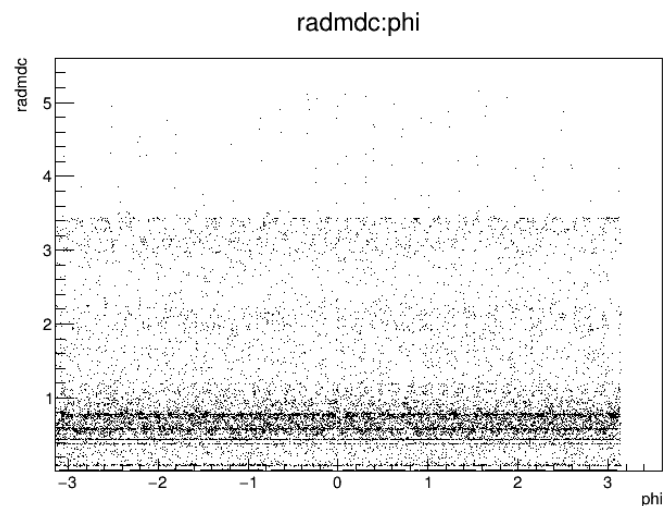
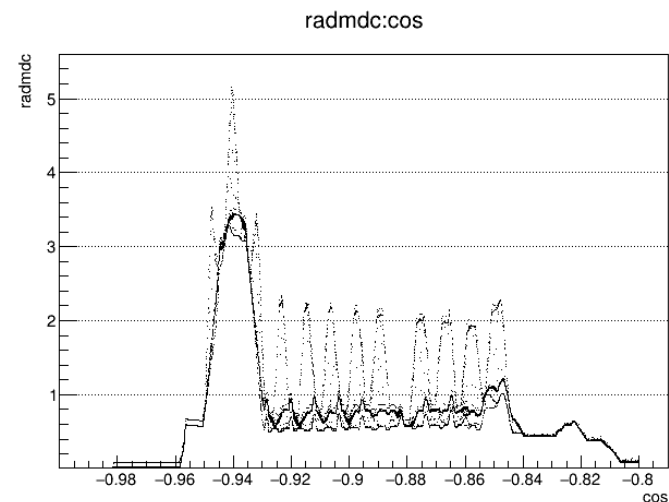
Update results of X [without effdesity]



Update results of X [without effdesity]

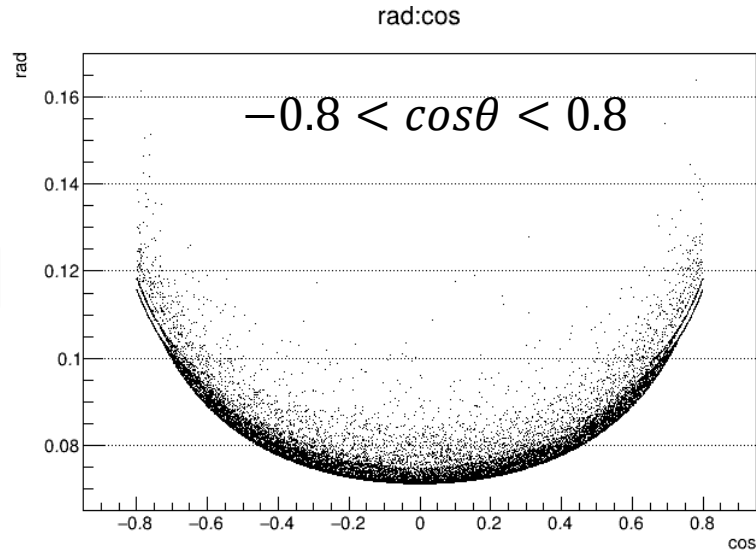


Update results of X [without effdesity]



Update results of X [effdesity]

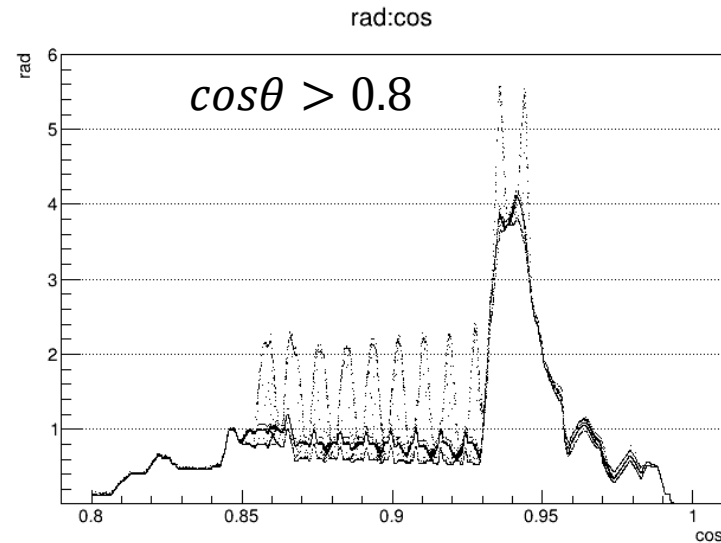
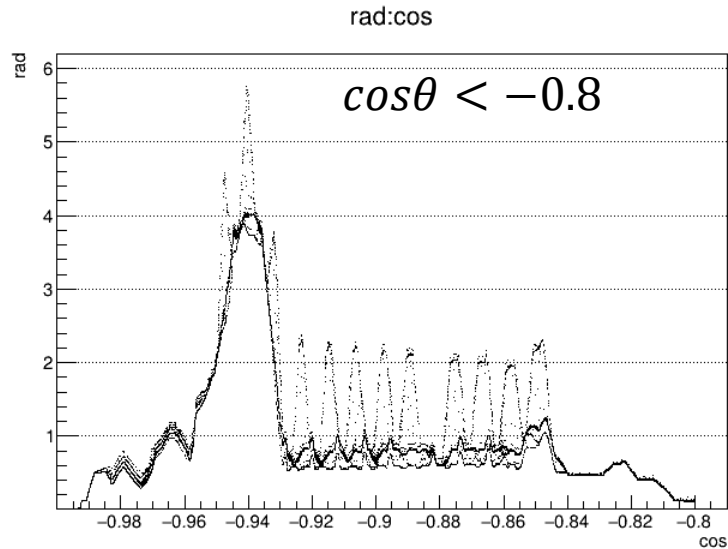
Barrel



- ✓ CGEMBOSS 6.6.5.f
- ✓ BesSim-00-04-16
- ✓ [update Stepping, Event, Run]

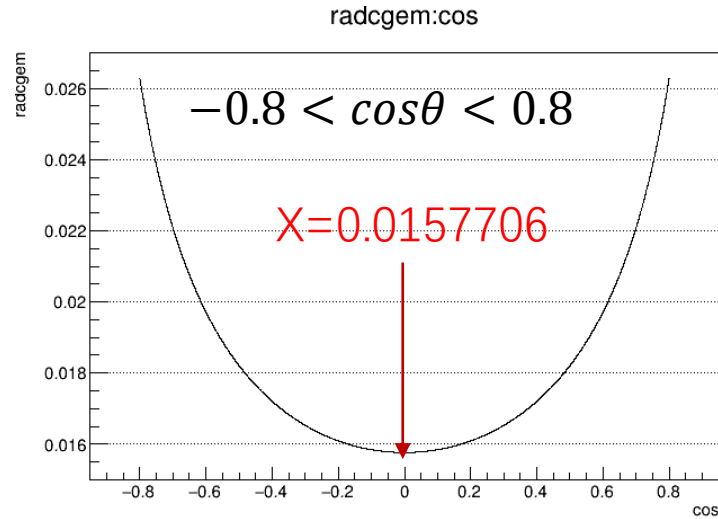
BesSim.Cgem=1;
BesSim.Mdc=1;

Endcap



Update results of X [effdesity]

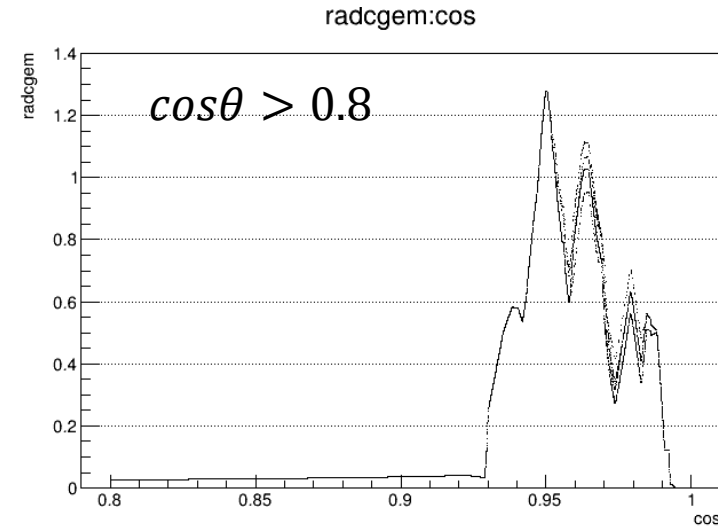
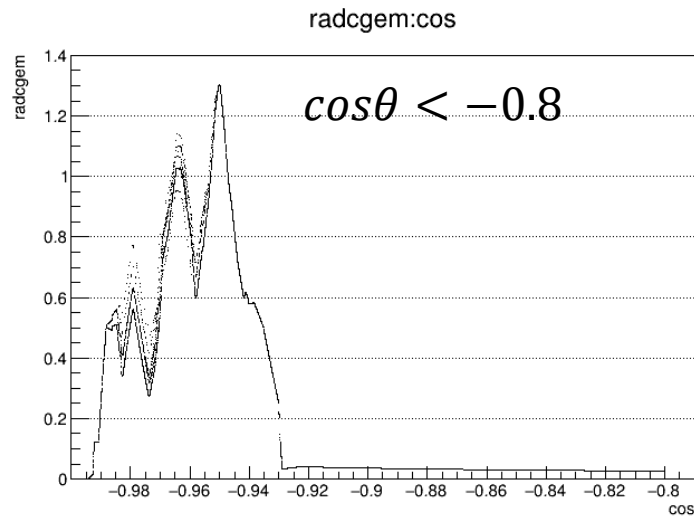
Barrel



- ✓ CGEMBOSS 6.6.5.f
- ✓ BesSim-00-04-16
- ✓ [update Stepping, Event, Run]

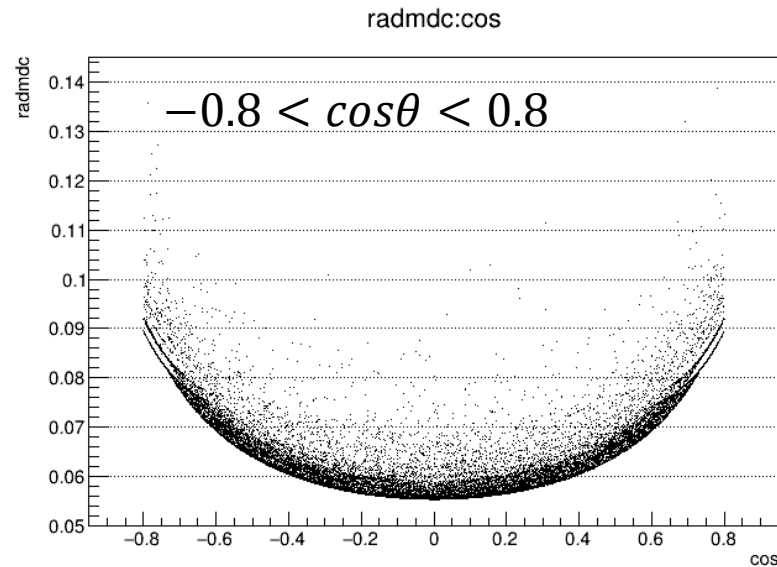
CGEM

Endcap



Update results of X [effdesity]

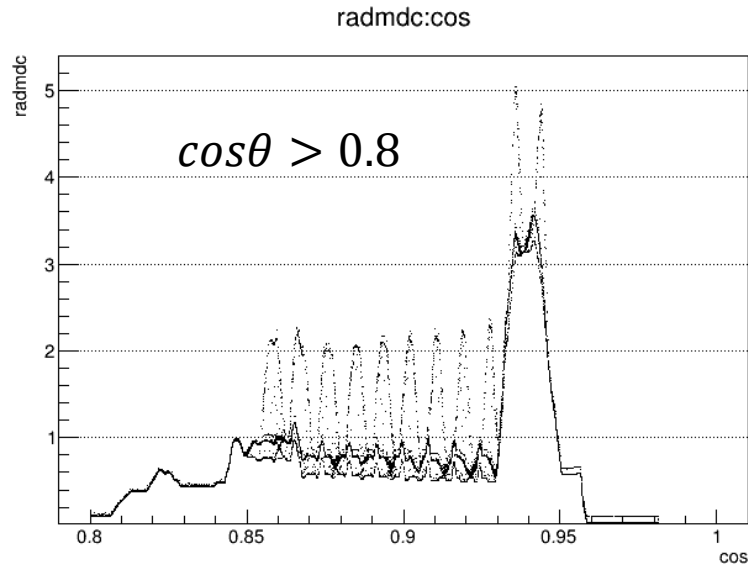
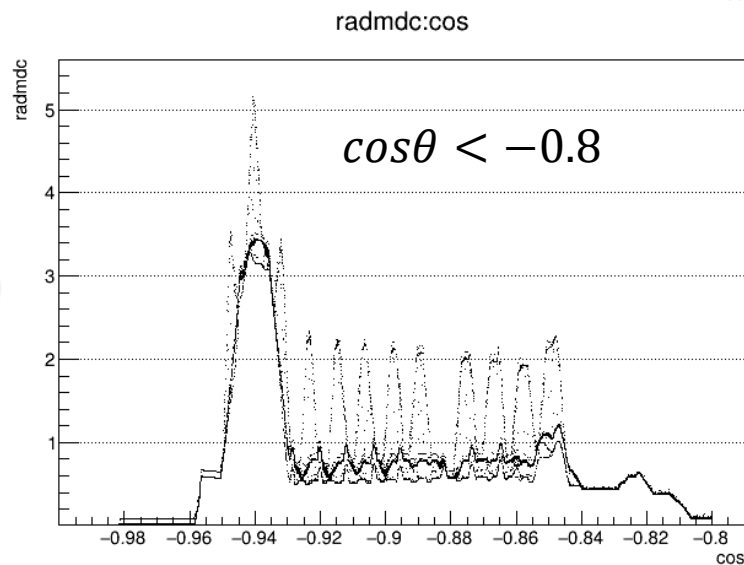
Barrel



- ✓ CGEMBOSS 6.6.5.f
- ✓ BesSim-00-04-16
- ✓ [update Stepping, Event, Run]

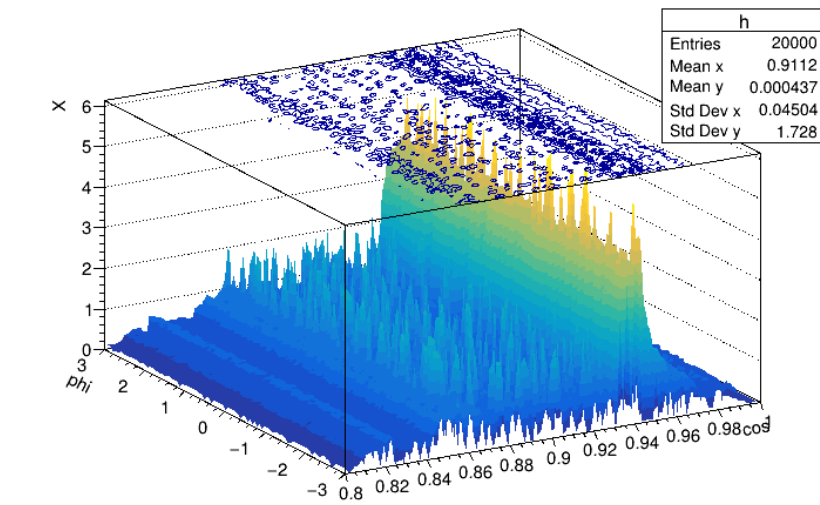
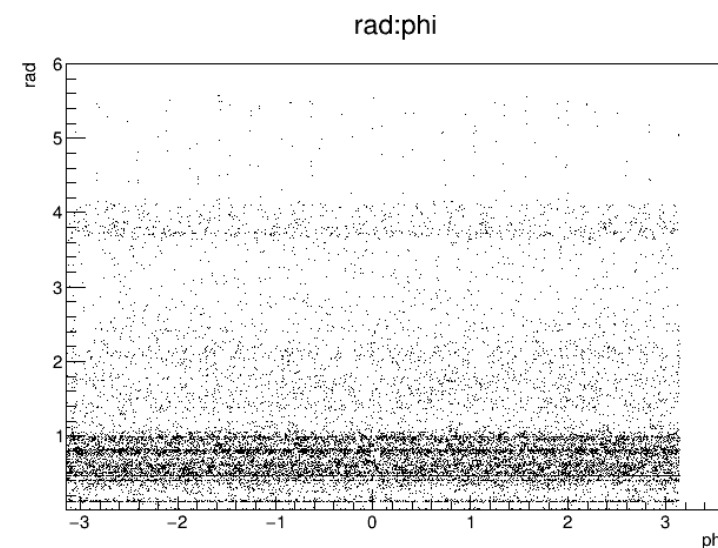
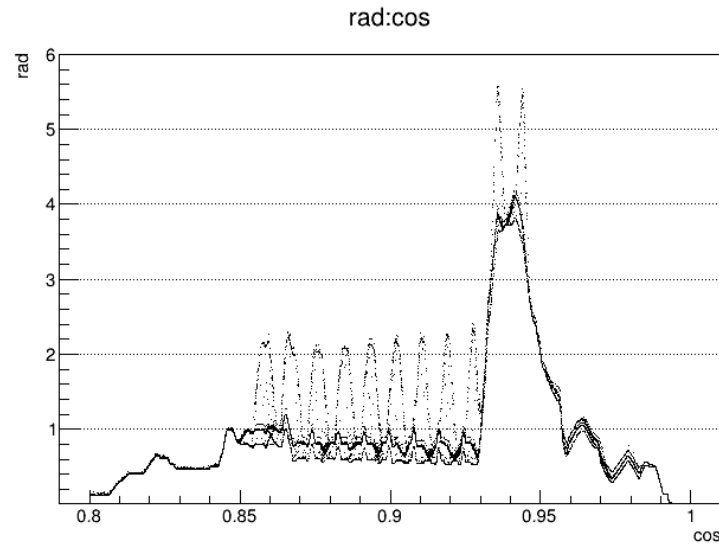
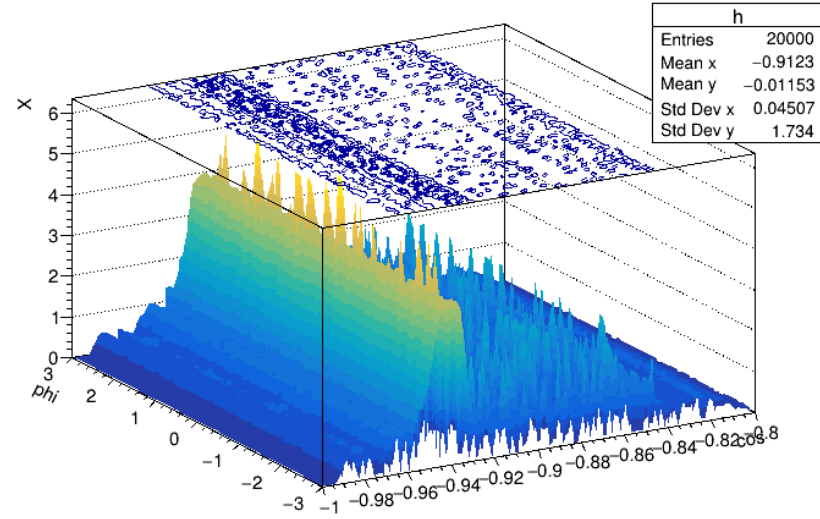
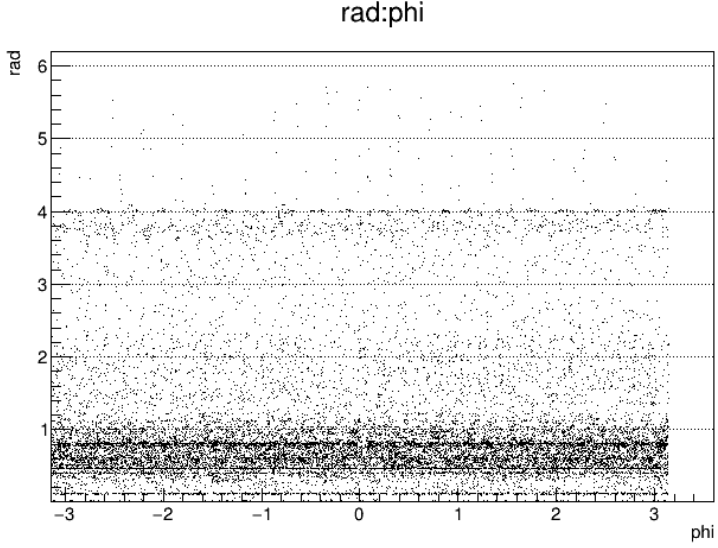
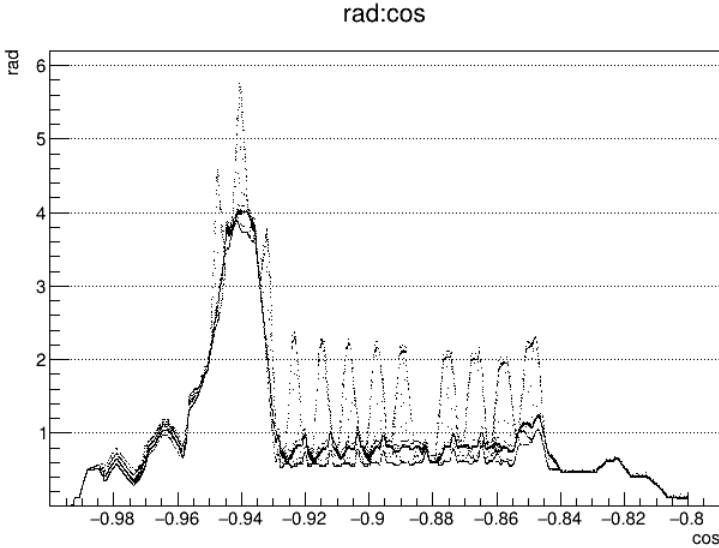
ODC

Endcap

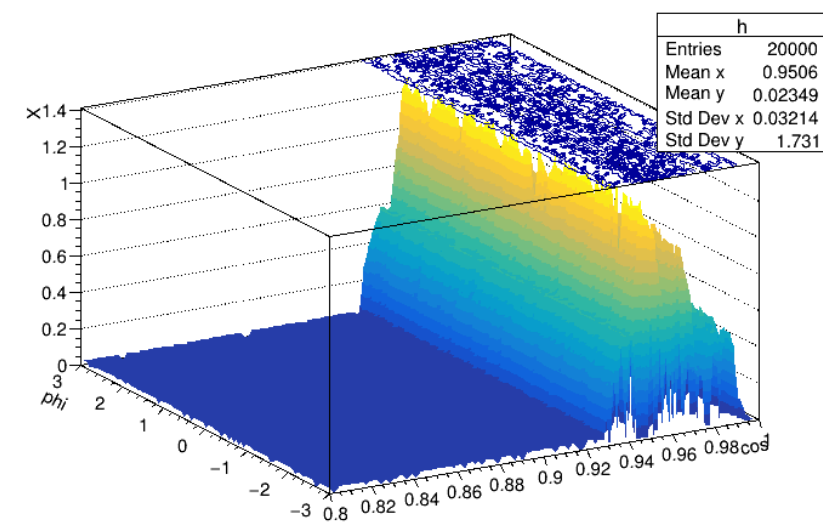
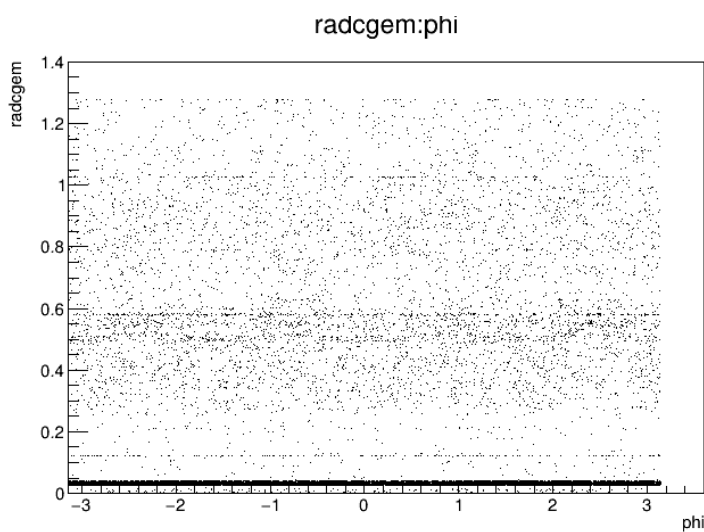
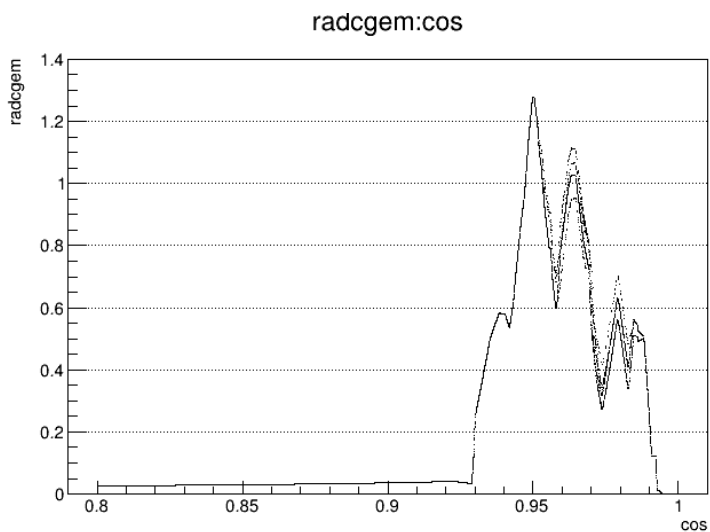
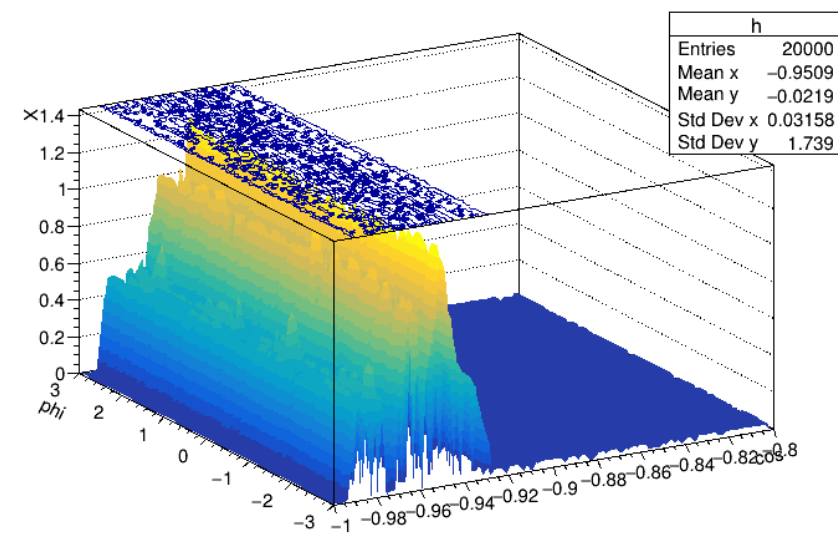
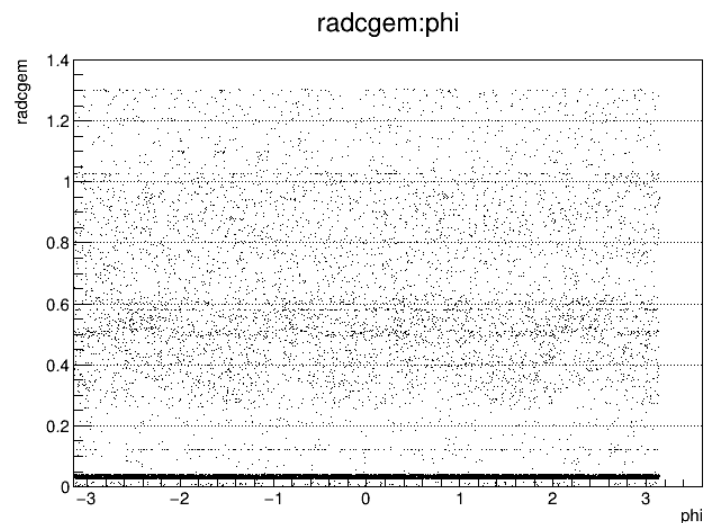
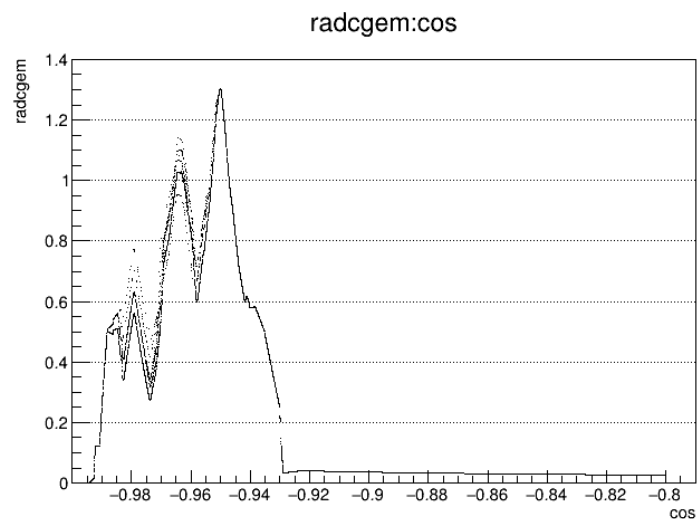


BesSim.Cgem=1;
BesSim.Mdc=1;

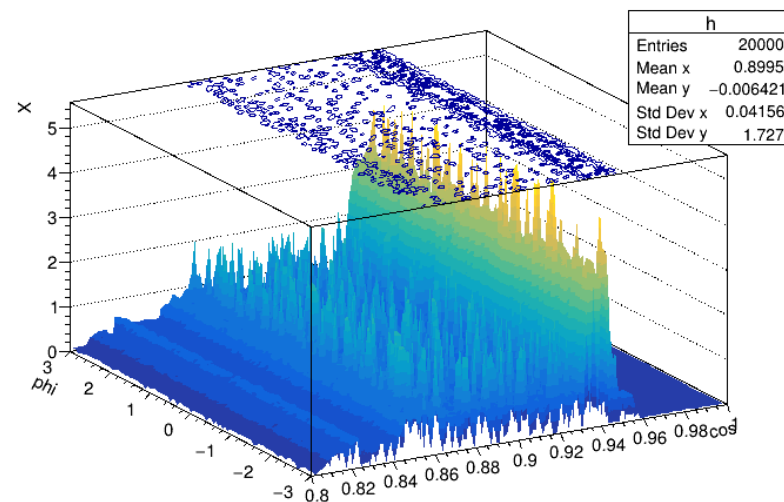
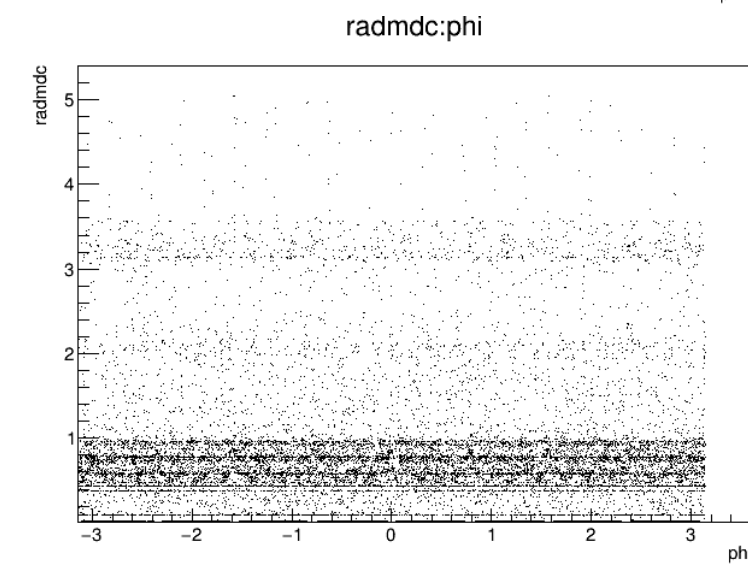
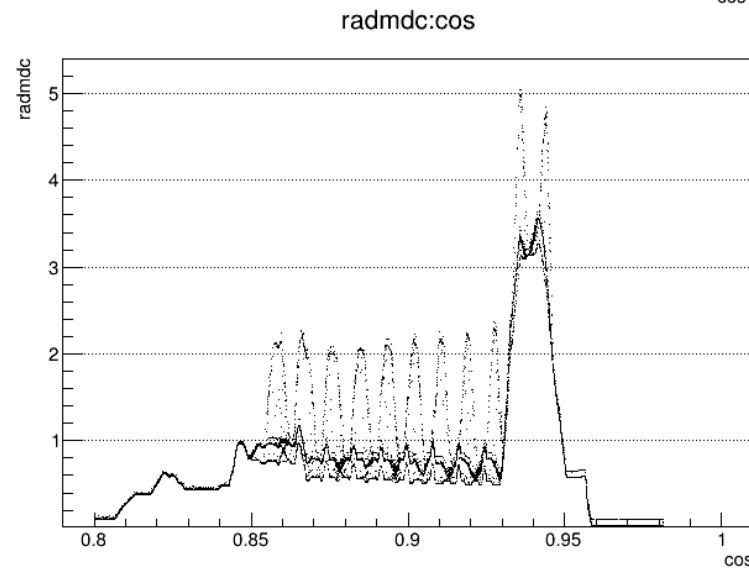
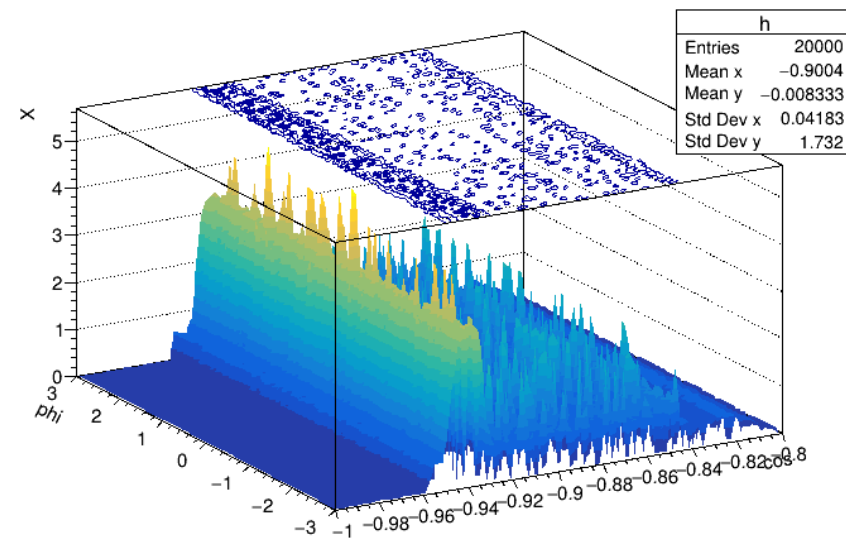
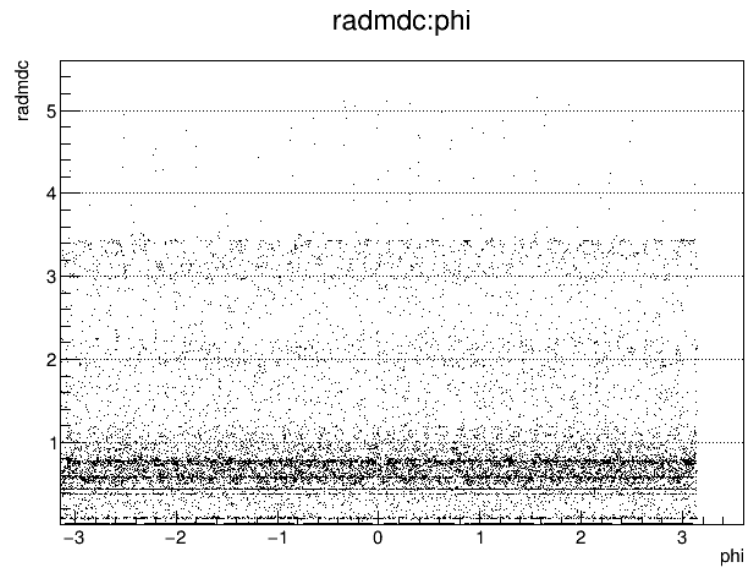
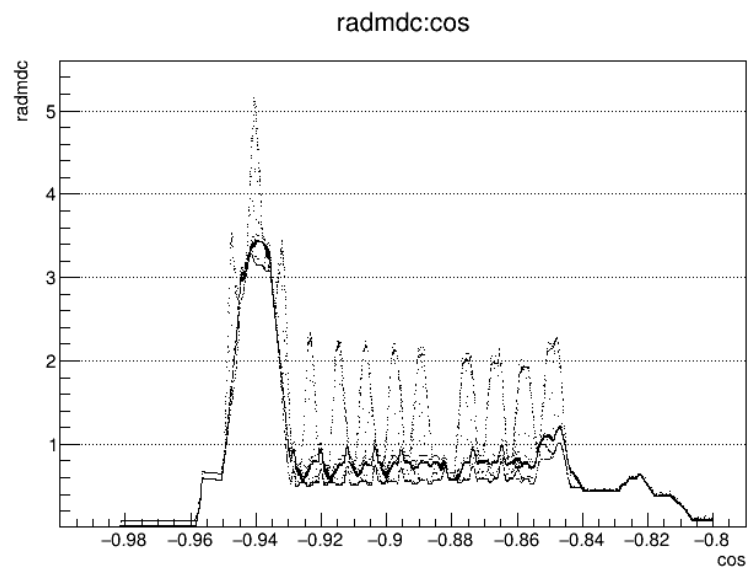
Update results of X [effdesity]



Update results of X [effdesity]



Update results of X [effdesity]



Backup

```
=====CGEM Information=====
```

R_i_Cgem	R_o_Cgem	L_Cgem
60	186.5	1156

=====CGEM Information End!=====

```
***** FINAL CHECK OF THE DIMENSIONS
```

```
inner global radius of layer0: 77.117 outer 94.165
```

inner radius of cathode: 77.117 outer 79.053

```
inner radius of gem0: 84 outer 84.06
```

```
inner radius of gem1: 86 outer 86.06
```

```
inner radius of gem2: 88 outer 88.06
```

```
inner radius of anode: 90 outer 94.165
```

```
inner global radius of layer1: 119.415 outer 136.7375
```

```
inner radius of cathode: 119.415 outer 121.555
```

```
inner radius of gem0: 126.5 outer 126.556
```

```
inner radius of gem1: 128.5 outer 128.556
```

```
inner radius of gem2: 130.5 outer 130.556
```

```
inner radius of anode: 132.5 outer 136.7375
```

```
inner global radius of layer2: 162.1 outer 179.168
```

```
inner radius of cathode: 162.1 outer 164.053
```

```
inner radius of gem0: 169 outer 169.06
```

```
inner radius of gem1: 171 outer 171.06
```

```
inner radius of gem2: 173 outer 173.06
```

```
inner radius of anode: 175 outer 179.168
```

model	features	oobScore	oobScore	test	
model0	0.04 *Logrank	0.000	4.289	175.000 *oob2	
	4.339 *L2d	0.000		e.oob2	
	Logrank5	0.010		e.oob2	
	Logrank2	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank3	0.000		e.oob2	
	Logrank6	3.800		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank1	0.010		e.oob2	
	Logrank1	0.000		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank2	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	L2d	0.000	0.060	175.000 *oob2	
	Logrank	0.000		e.oob2	
model3	L2d	0.000	10.940	175.000 *oob2	
	Logrank	0.000		e.oob2	
	0.04 *Logrank	0.000		e.oob2	
	L2d	0.000		e.oob2	
model2	Logrank	0.000		e.oob2	
	L2d	1.940		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000		e.oob2	
model1	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000		e.oob2	
cfrank3	0.04 *Logrank	0.000	0.010	164.000 *oob2	
	Logrank	0.000		e.oob2	
	Logrank3	0.000		e.oob2	
	Logrank2	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank1	0.000		e.oob2	
	Logrank6	1.800		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000	162.100	e.oob2	
	model2	L2d	0.000	4.175	184.775 *oob2
		0.04 *Logrank	0.000		e.oob2
4.175 *L2d		0.000		e.oob2	
Logrank5		0.010		e.oob2	
Logrank2		0.000		e.oob2	
Logrank		2.000		e.oob2	
Logrank		0.010		e.oob2	
Logrank		0.010		e.oob2	
Logrank6		0.000		e.oob2	
Logrank		0.000		e.oob2	
Logrank		0.000		e.oob2	
Logrank		0.000		e.oob2	
Logrank		0.010		e.oob2	
Logrank		0.010		e.oob2	
L2d		0.000	0.060	184.775 *oob2	
Logrank	0.000		e.oob2		
model3	L2d	0.000	10.940	184.775 *oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000		e.oob2	
model2	0.04 *Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	1.940		e.oob2	
	Logrank	0.000		e.oob2	
model1	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000		e.oob2	
cfrank2	0.04 *Logrank	0.000	0.060	121.000 *oob2	
	Logrank	0.000		e.oob2	
	Logrank3	0.000		e.oob2	
	Logrank2	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	Logrank	0.010		e.oob2	
	L2d	0.000	118.410	e.oob2	
	model1	L2d	0.000	4.150	94.150 *oob2
0.04 *Logrank		0.000		e.oob2	
4.150 *L2d		0.000		e.oob2	
Logrank5		0.010		e.oob2	
Logrank2		0.010		e.oob2	
Logrank		0.000		e.oob2	
Logrank		0.010		e.oob2	
Logrank		0.000		e.oob2	
Logrank		0.010		e.oob2	
Logrank		0.010		e.oob2	
Logrank		0.010		e.oob2	
Logrank		0.010		e.oob2	
Logrank		0.010		e.oob2	
L2d		0.000	0.060	94.150 *oob2	
model3		L2d	0.000	10.940	94.150 *oob2
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000		e.oob2	
model2	0.04 *Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	1.940		e.oob2	
	Logrank	0.000		e.oob2	
model1	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000		e.oob2	
cfrank1	0.04 *Logrank	0.000	0.010	79.000 *oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	Logrank	0.000		e.oob2	
	L2d	0.000	77.170	e.oob2	
	L2d	0.000		e.oob2	
cfrank	0	0.000	0.000		