

CGEM-IT geometry Summary

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February 25, 2021

Layer 1 stratification

LAYER 1	material	thickness	fill factor	rad length			
cathode	copper	3	1	0,0002089	0,0009933	x1	0,00099328
	kapton	50	1	0,0001750			
	epoxy	15	1	0,0000442			
	honeycomb	1800	1	0,0001372			
	epoxy	15	1	0,0000442			
	kapton	50	1	0,0001750			
	copper	3	1	0,0002089			
gem	copper	5	0,66	0,0002298	0,0006396	x3	0,00191893
	kapton	50	0,81	0,0001417			
	copper	5	0,77	0,0002681			
anode	copper	5	0,88	0,0003064	0,0020615	x1	0,00206154
	kapton	50	0,2	0,0000350			
	copper	5	0,2	0,0000696			
	epoxy	25	1	0,0000736			
	kapton	25	1	0,0000875			
	epoxy	15	1	0,0000442			
	carbonfiber	70	1	0,0002500			
	epoxy	15	1	0,0000442			
	honeycomb	3800	1	0,0002895			
	epoxy	15	1	0,0000442			
	carbonfiber	70	1	0,0002500			
	epoxy	15	1	0,0000442			
	copper	5	1	0,0003482			
	kapton	50	1	0,0001750			
							0,00497374

Layer 2 stratification

LAYER 2	material	thickness	fill factor	rad length			
cathode	kapton	12,5	1	0,0000437	0,0009324 x1	0,00093239	
	epoxy	15	1	0,0000442			
	rohacel	1000	1	0,0000725			
	epoxy	15	1	0,0000442			
	kapton	12,5	1	0,0000437			
	epoxy	15	1	0,0000442			
	rohacel	1000	1	0,0000725			
	epoxy	15	1	0,0000442			
	kapton	50	1	0,0001750			
	copper	5	1	0,0003482			
gem	copper	5	0,66	0,0002298	0,0006396 x3	0,00191893	
	kapton	50	0,81	0,0001417			
	copper	5	0,77	0,0002681			
anode	copper	5	0,88	0,0003064	0,0016058 x1	0,00160584	
	kapton	50	0,2	0,0000350			
	copper	5	0,2	0,0000696			
	epoxy	25	1	0,0000736			
	kapton	25	1	0,0000875			
	epoxy	15	1	0,0000442			
	rohacel	2000	1	0,0001451			
	epoxy	15	1	0,0000442			
	kapton	12,5	1	0,0000437			
	epoxy	15	1	0,0000442			
	rohacel	2000	1	0,0001451			
	epoxy	15	1	0,0000442			
	copper	5	1	0,0003482			
	kapton	50	1	0,0001750			

NEW L3 stratification

[illegible]

- **CgemBoss665f (default) (red points):** CgemGeomSvc-00-00-31-p01, CgemSim-01-00-32
“old geometry, passive elements fixed, effective density off by default”
- CgemBoss665f, CgemGeomSvc-00-00-35, CgemSim-01-00-34 (black points)
“new geometry, passive elements fixed”

	Create holes	Effective Density for Holes	Effective Density for Strips	CGEM X0 @ $\cos\theta=0$ (w/o separator)
CgemBoss665f (default)	false	false	false	1.44%
CgemBoss665f, CgemGeomSvc-00-00-35, CgemSim-01-00-34	false	false	false	1.8%

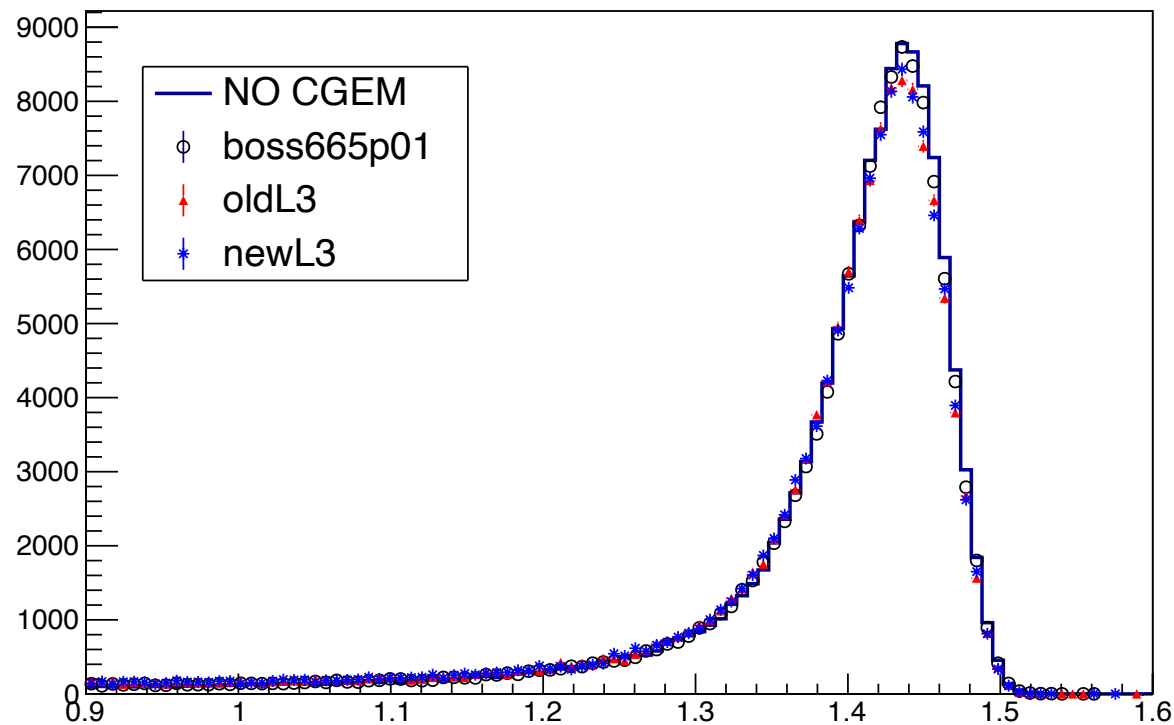
From new L3 stratification:

1.9%

NEW L3 implementation: conclusion

- Check overlaps done
- Study of the new radiation length: done
- BhaBha simulation: done

hbarrel0



hendcaps0

