



Front-End Lattice Update



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12 February 2013

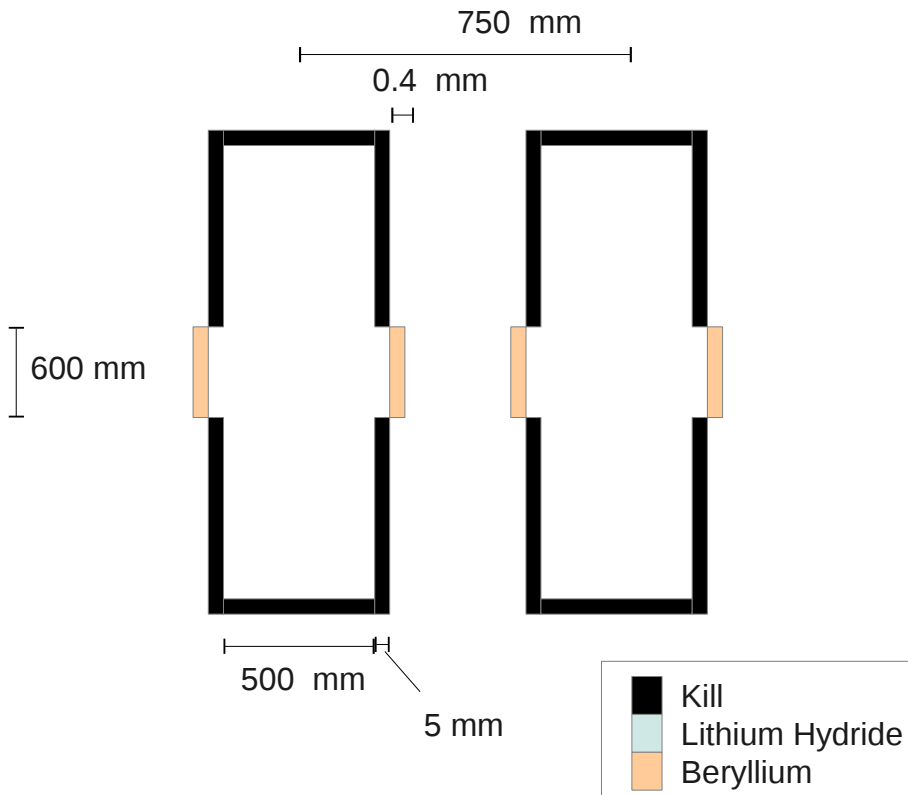


Front End 2.1

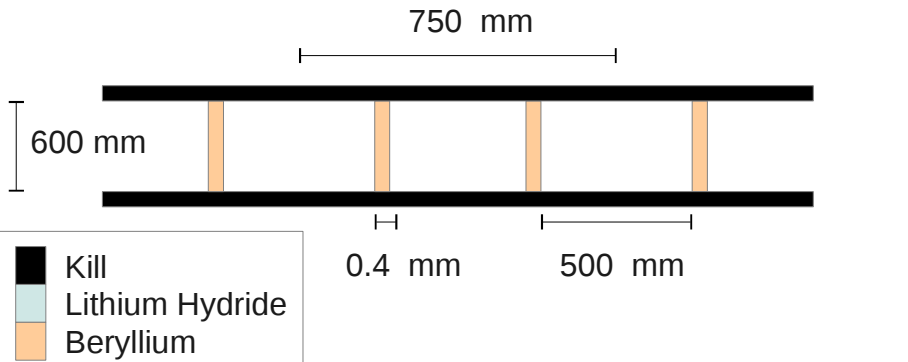
- Made G4BL aperture closed (i.e. no gaps)
- Increased G4BL matcher and cooler aperture to 350 mm
- Fixed some typographical errors in ICOOL header material
- Added reference output for g4bl 2.12 and icool 3.30
 - Still some work to do before these become 'official'

Rotator 2.0

2 Rotator Cells (G4BL)



2 Rotator Cells (ICOOL)



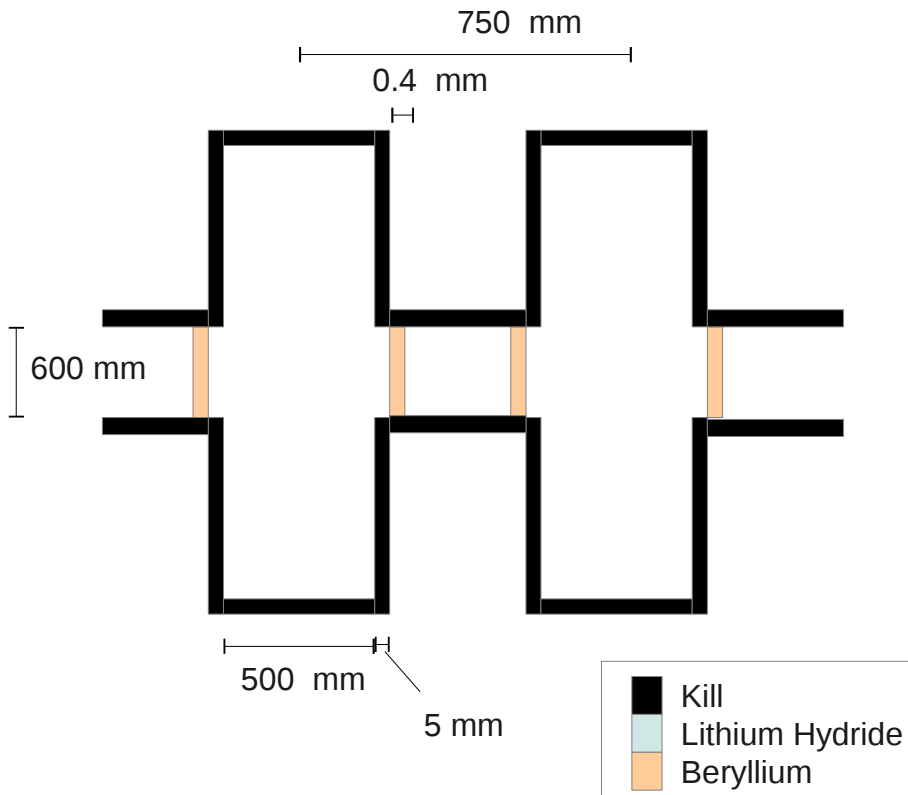
Rotator		
Cell Number	RF freq [GHz]	Number RF
1	0.23019	3
2	0.22613	3
3	0.22259	3
4	0.21948	3
5	0.21676	3
6	0.21437	3
7	0.21228	3
8	0.21046	3
9	0.20864	4
10	0.2069	4
11	0.20549	4
12	0.20425	5
13	0.20326	5
14	0.20263	5
15	0.20233	5
RF length	500	mm
RF volt	13	MV/m
RF phase	0	
RF are placed every 750 mm (no empty cells)		
Field is constant 1.5 T (no coils simulated)		

Actions:

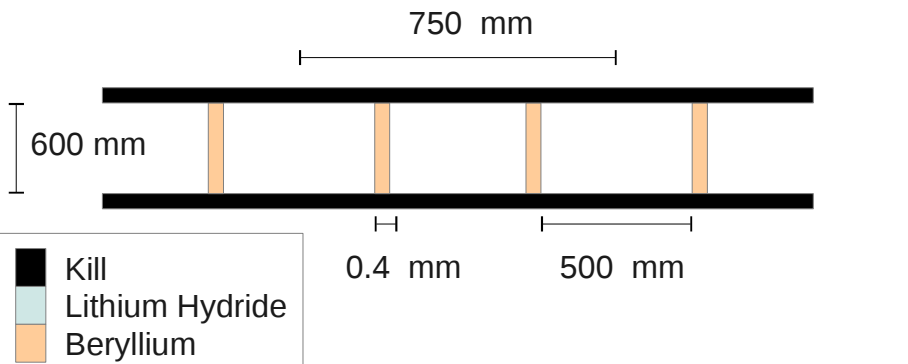
- missing aperture in G4BL
- Realistic coil geometry

Rotator 2.1

2 Rotator Cells (G4BL)



2 Rotator Cells (ICOOL)

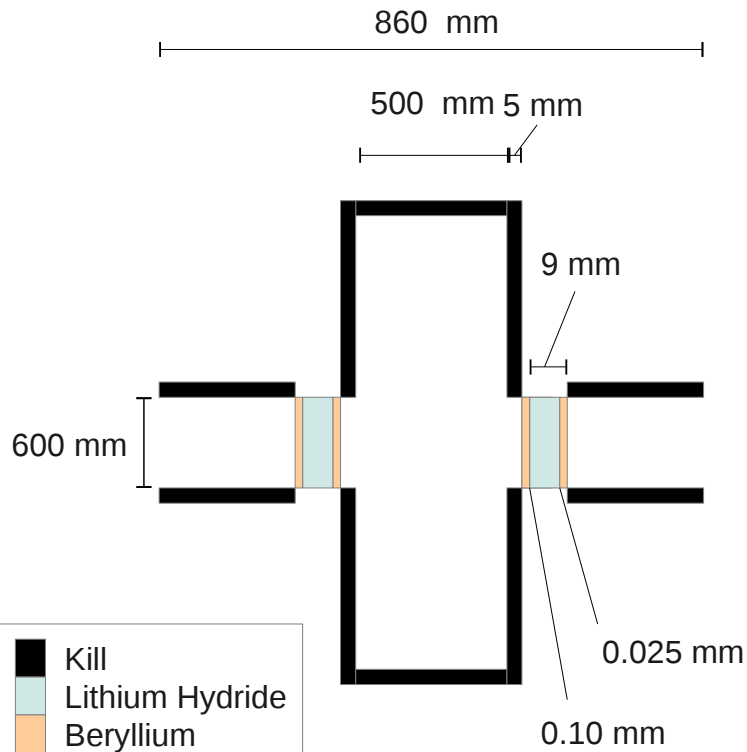


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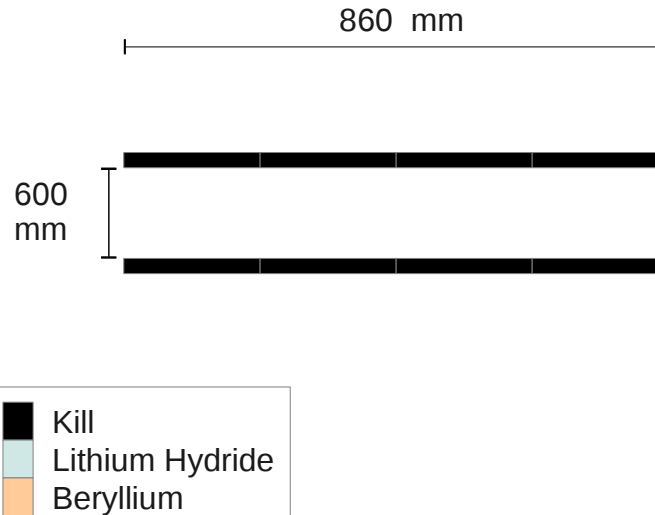
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Cooler 2.0

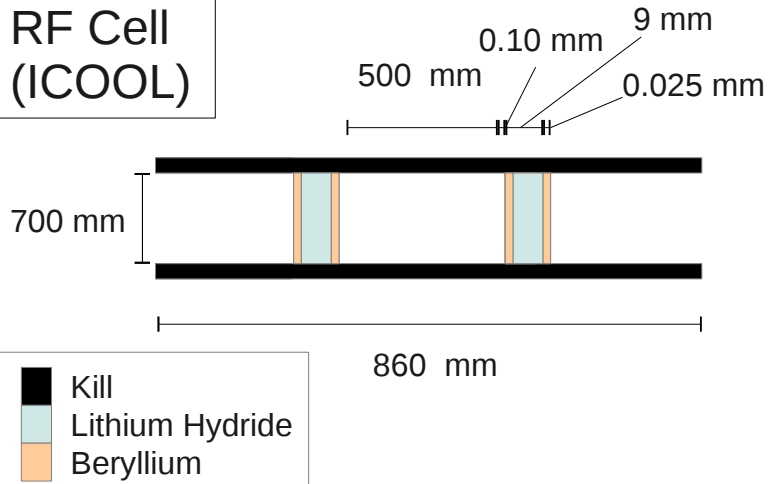
RF Cell (G4BL)



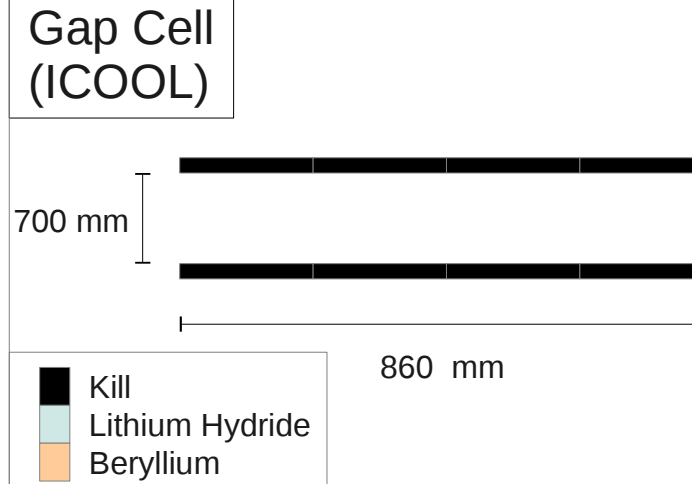
Gap Cell (G4BL)



RF Cell (ICOOL)



Gap Cell (ICOOL)



Cooler	
RF length	500 mm
RF volt	16 MV/m
RF phase	35 deg
N RF subcells	5
N Gap subcells	1
N supercells	44

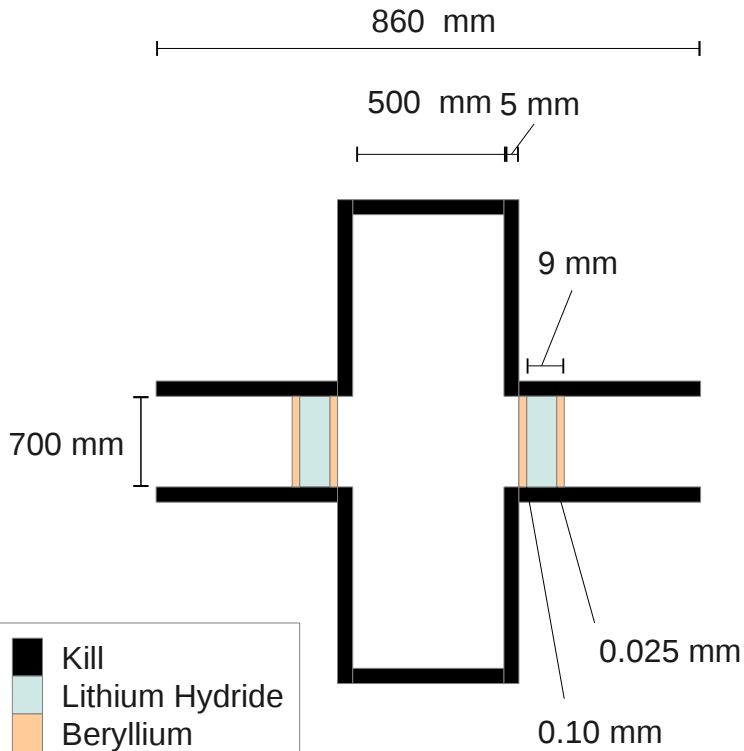
Additional 1 mm LiH block at start of cooling

Actions:

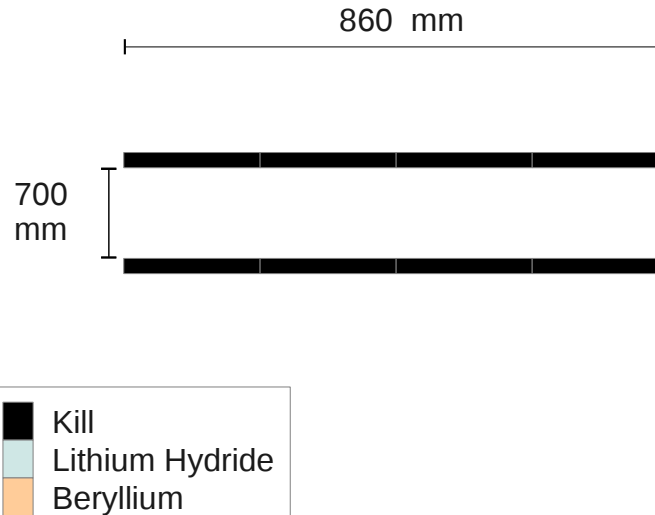
- missing aperture in G4BL

Cooler 2.1

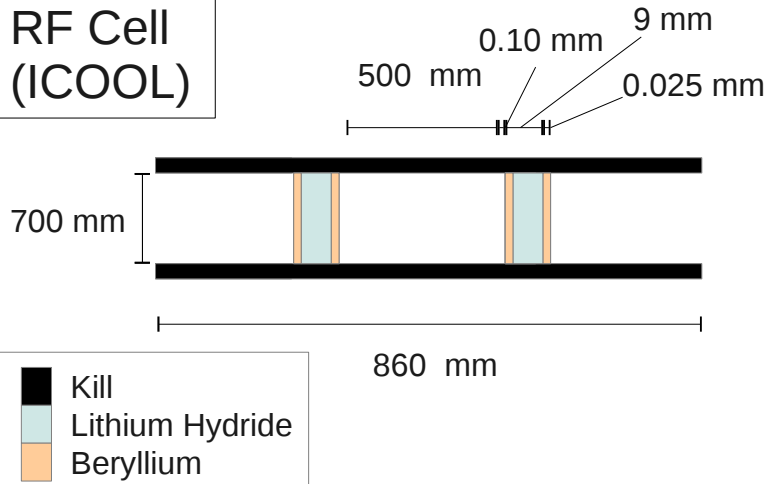
RF Cell (G4BL)



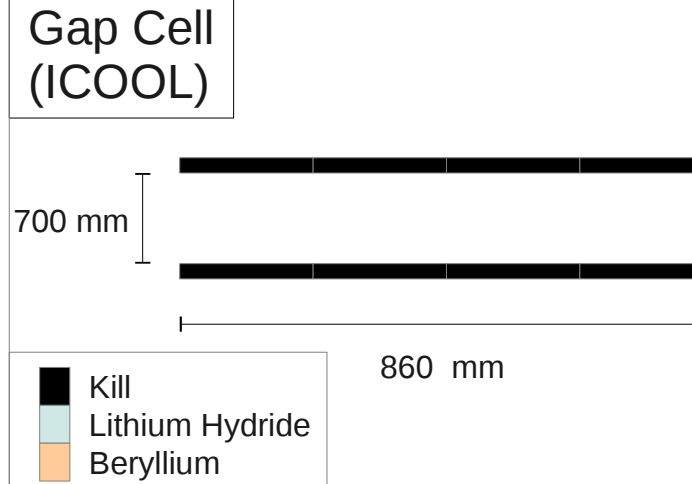
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G4BL 2.06, different lattice versions

