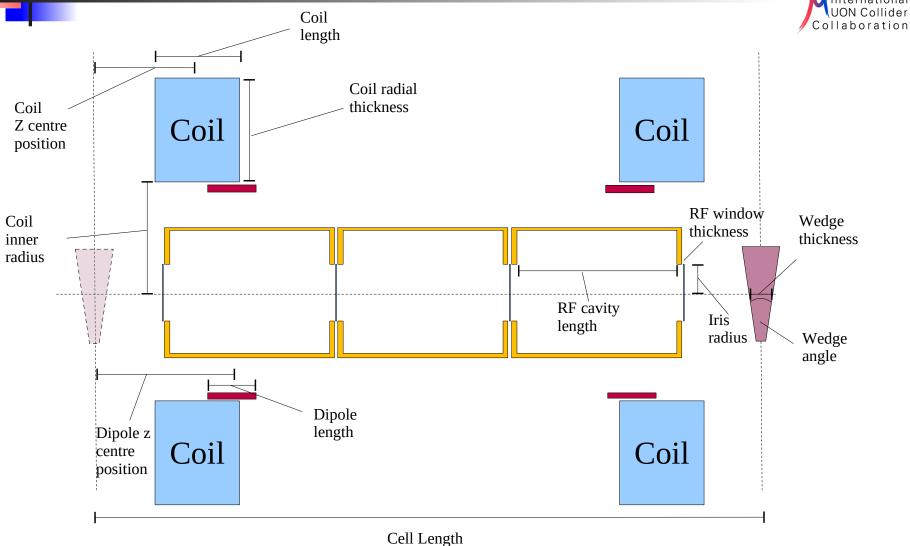
Schematic - one (half) cell

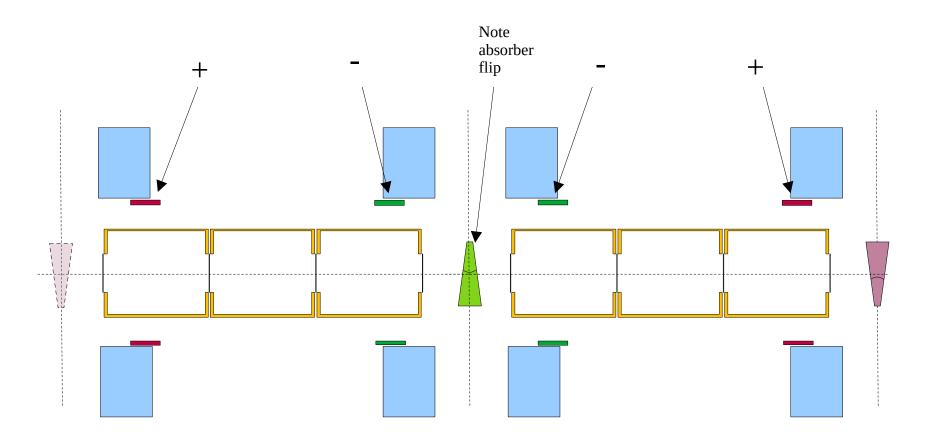






Schematic - one (half) cell









Absorber material



| | Cooling Cell Parameters | ing Cell Parameters | | | |
|--------------------------------|-------------------------|---------------------|--|--|--|
| Beam Physics Parameters | | | | | |
| | Momentum | 200 MeV/c | | | |
| | Twiss beta function | 107 mm | | | |
| | Dispersion in x | 38.5 mm | | | |
| | Dispersion in y | 20.3 mm | | | |
| | Beam pipe radius | 81.6 mm | | | |

| Design solenoid para | sign solenoid parameters* | |
|----------------------|---------------------------|--|
| B0.5 | 0 T | |
| B0 | 8.75 T | |
| B1 | 1.25 T | |
| B2 | 0 T | |
| Cooling Cell length | 800 mm | |
| B0 tolerance | 0.25 T | |
| B1 tolerance | 0.025 T | |
| B0.5 tolerance | 0.02 T | |
| B2 tolerance | 0.5 T | |

| Simulated coil geometry | |
|-------------------------|------------|
| Inner radius | 250 mm |
| Coil Length | 140 mm |
| Coil radial thickness | 169.3 mm |
| Coil z centre position | 100.7 mm |
| Current Density | 500 A/mm^2 |

| RF Cavity | |
|--------------------|-----------|
| RF Cell length | 188.6 mm |
| RF Gradient | 30 MV/m |
| Iris radius | 81.6 mm |
| Number of RF cells | 3 |
| Frequency | 0.704 GHz |
| Synchronous phase | 20 degree |
| RF window | 0.1 mm |

| Wedge | |
|-------------------|-----------------|
| Material | Lithium Hydride |
| Opening Angle | 10 degree |
| Thickness | 20 mm |
| Transverse offset | 8.7 mm |

| Dipole | | |
|--------------------------|----|--------|
| Length | | 100 mm |
| Polarity | ++ | |
| Field | | 0.2 T |
| Dipole z centre position | | 160 mm |