

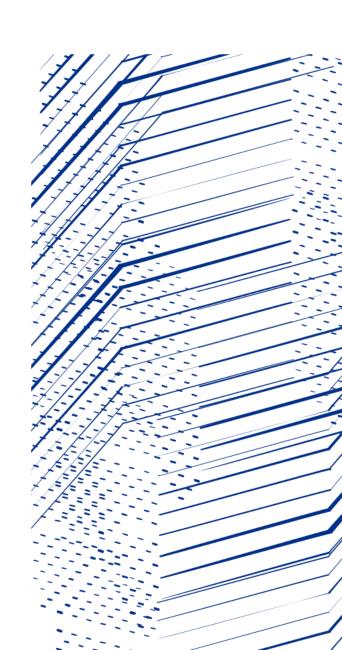
ITRF - LhARA

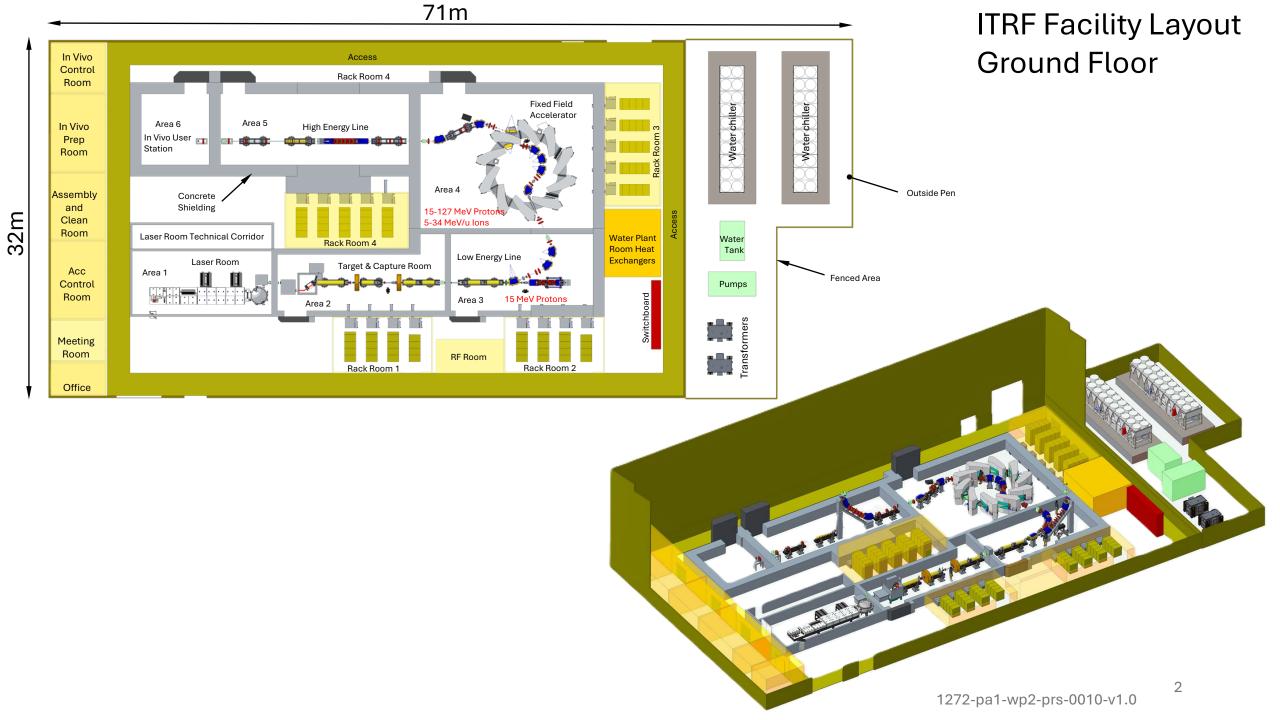
FFA Review

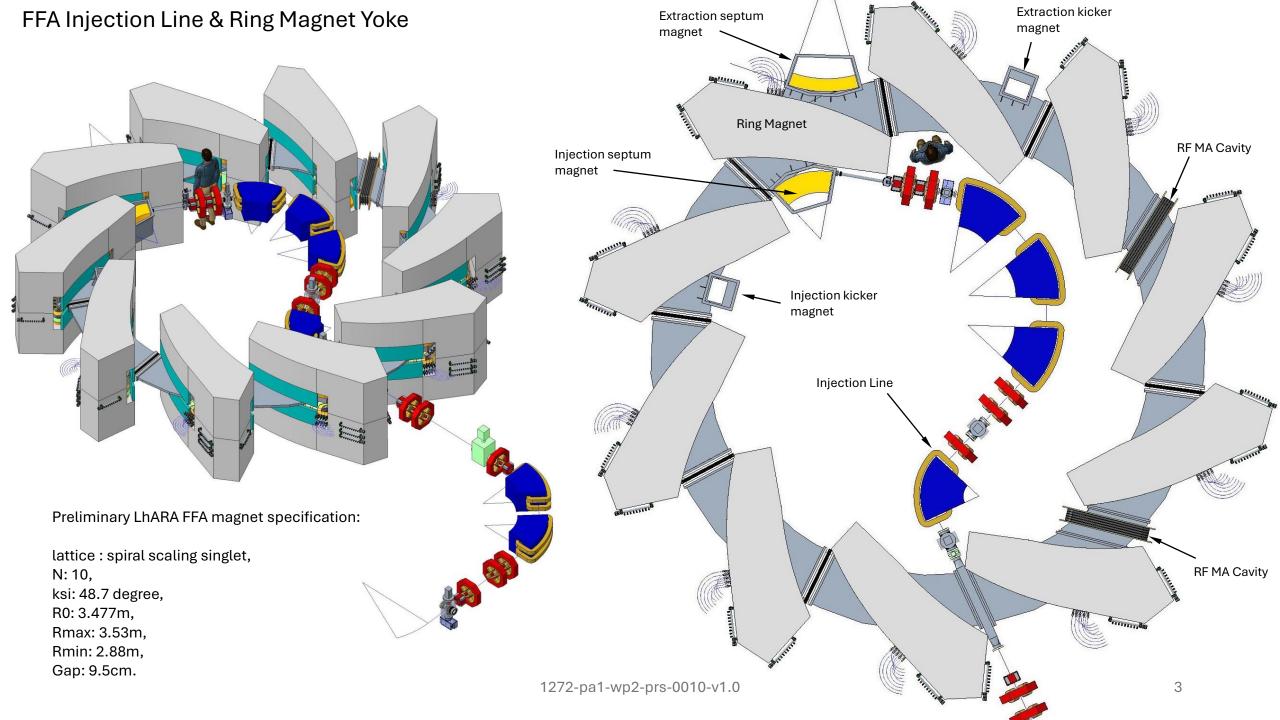
1272-pa1-meng-prs-0023-v0.1-FFA Review

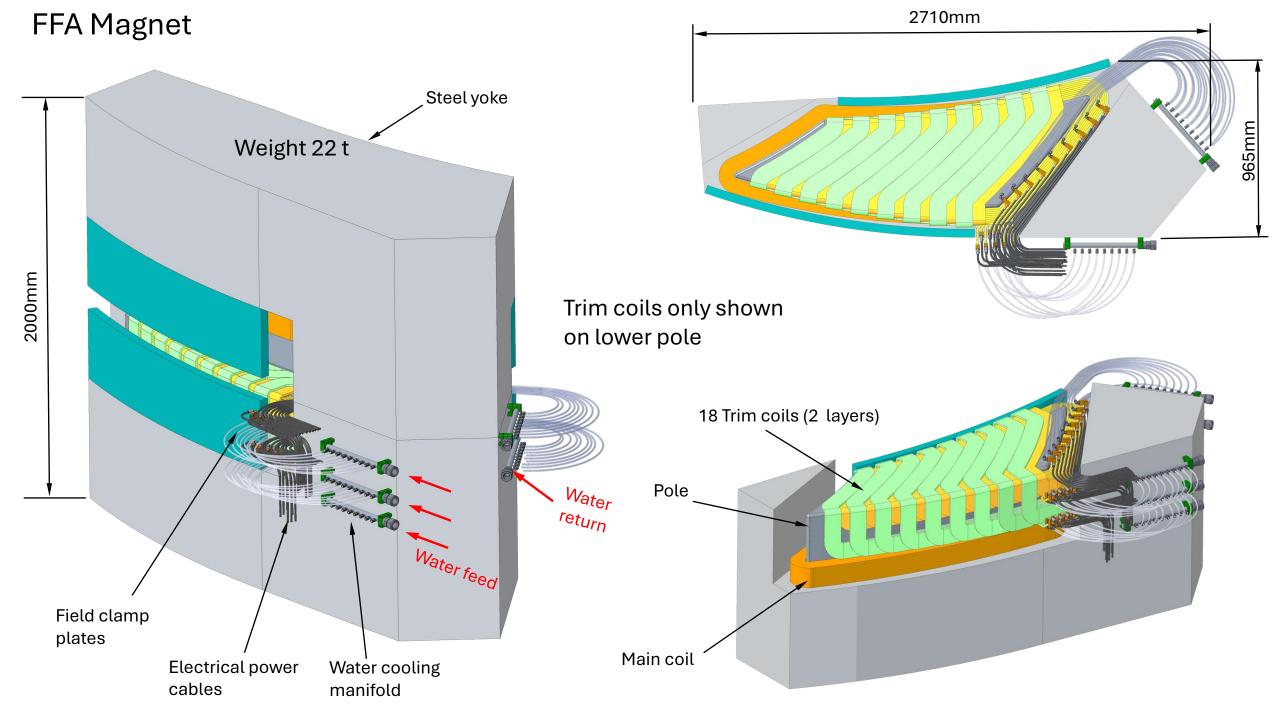
FFADesign Review Date 26/02/25

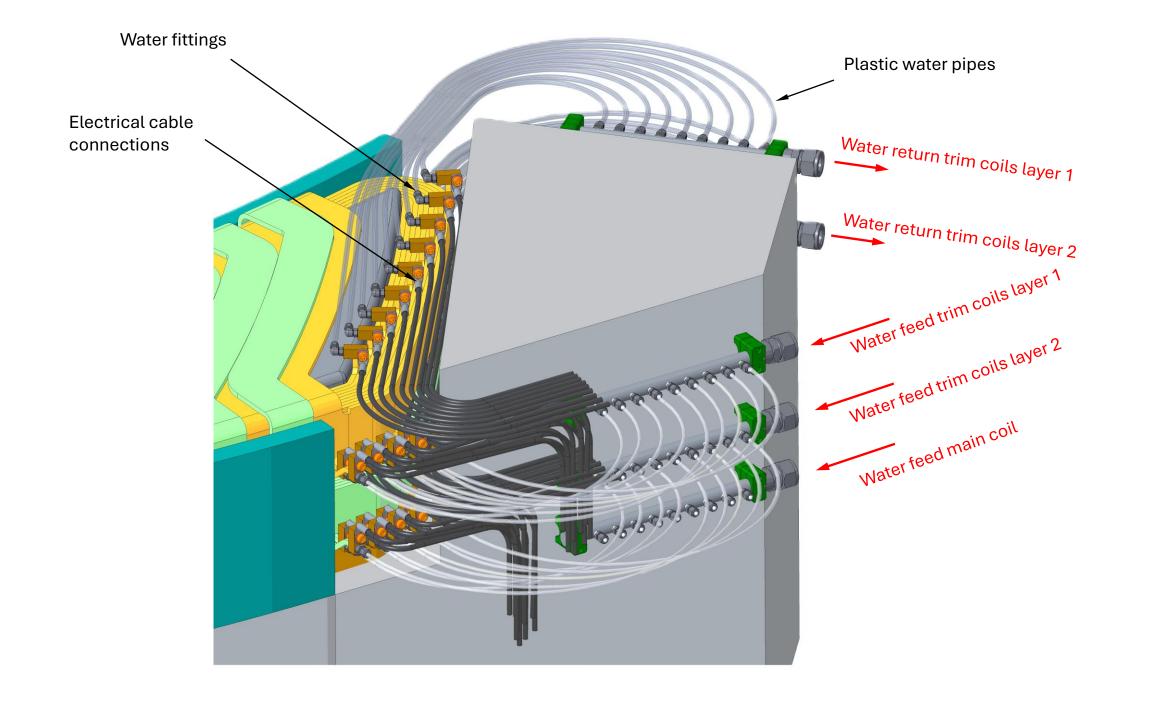
Clive Hill, UKRI-STFC-Daresbury Laboratory

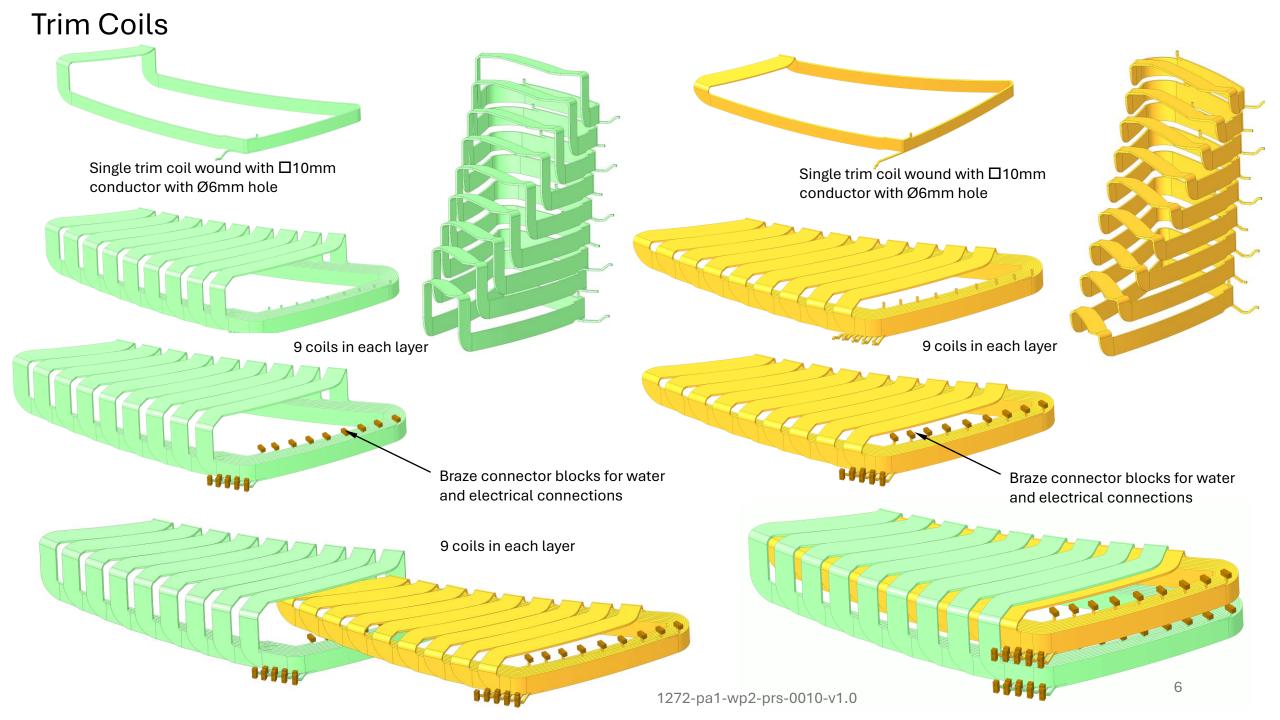


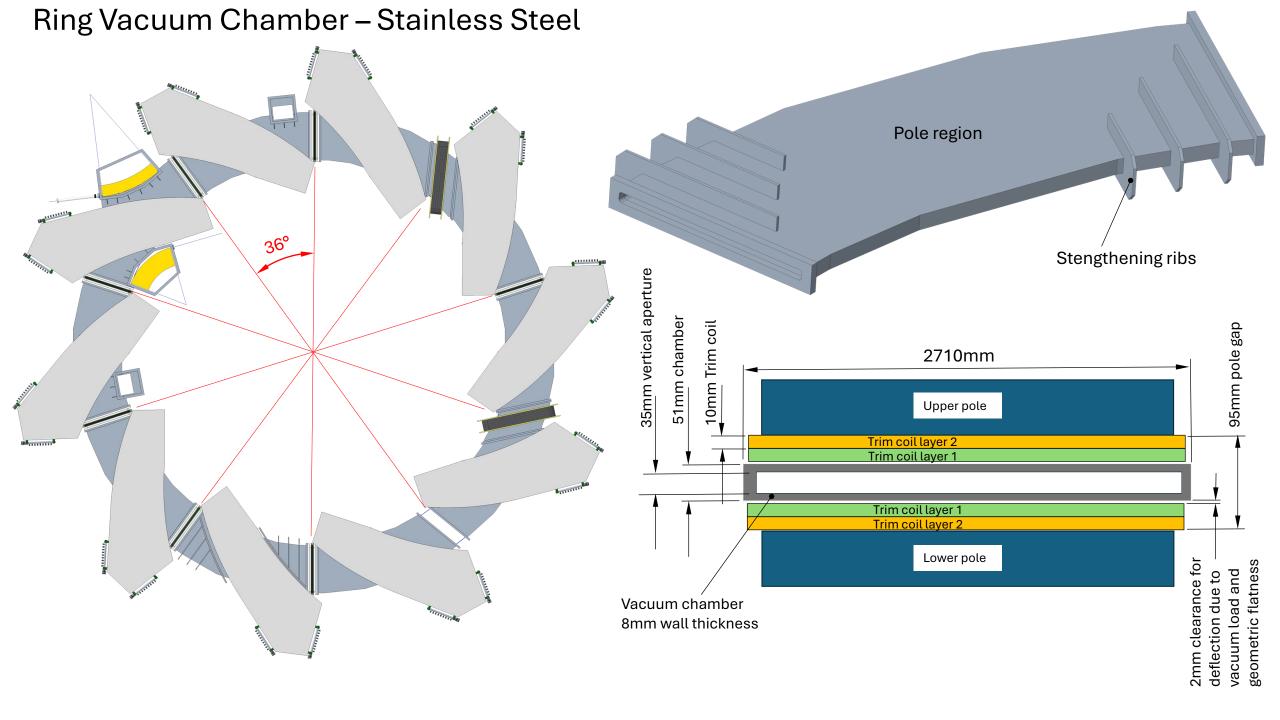


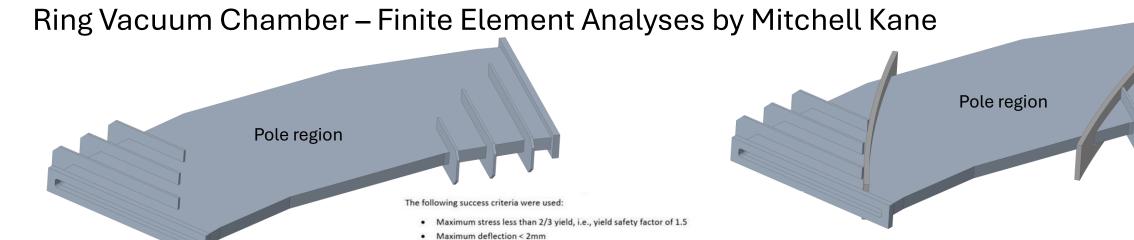








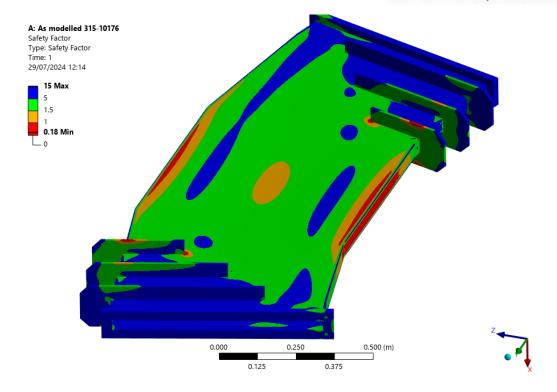


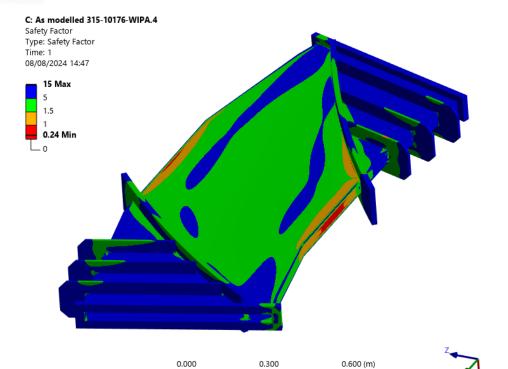


 $Yield\ safety\ factor = \frac{Yield\ stress}{Stress}$ Yield safety factors are used for easier comparisons between material

Yield safety factor is defined as:

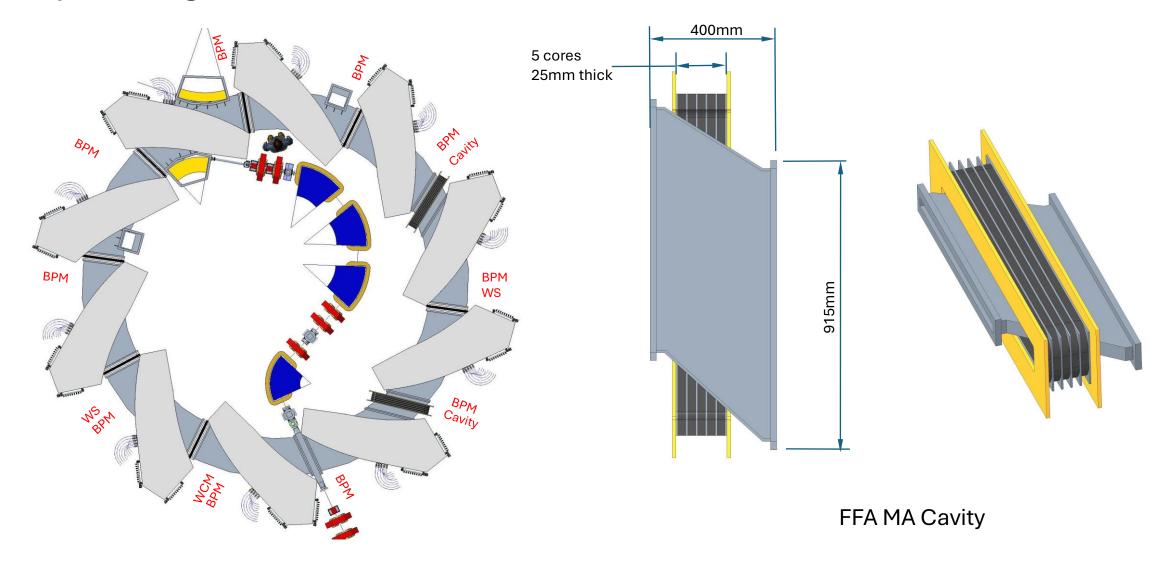
Yield safety factors are used for easier comparisons between materials. It is clearer to determine whether stresses are acceptable without having to refer back to the yield stress for each material.



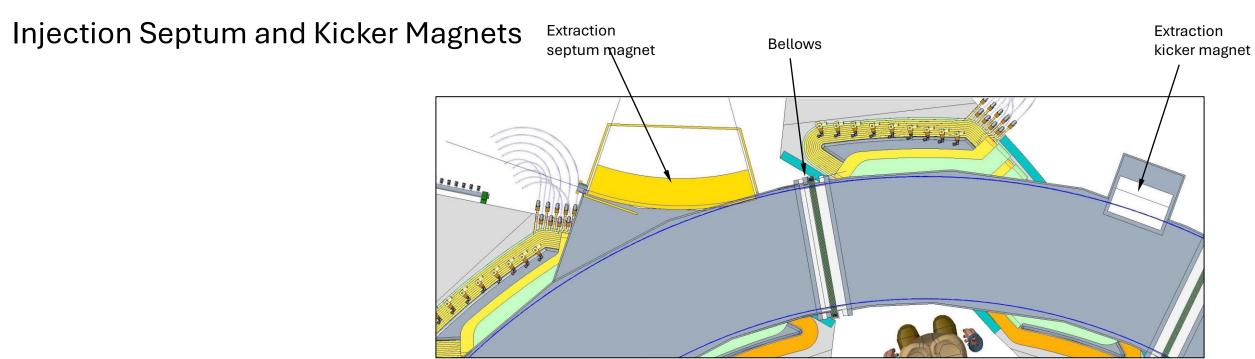


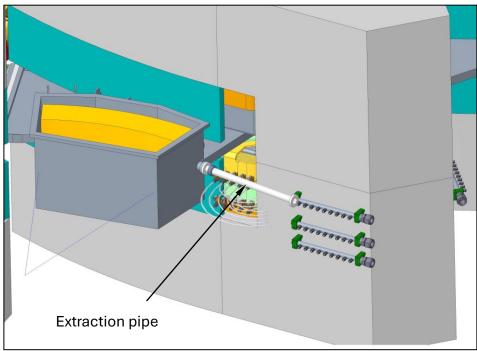
0.450

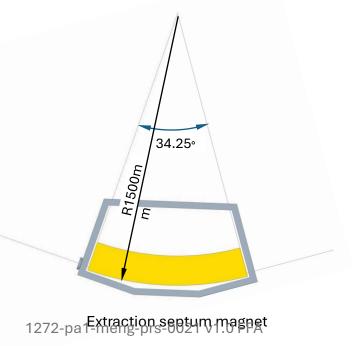
RF Cavity and Diagnostics

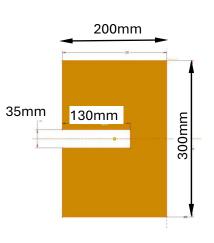


Injection Septum and Kicker Magnets Injection pipe Ø35mm Vacuum valve Injection septum magnet 200mm 35mm 130mm 300mm 53° Injection C shaped 10 kicker magnet Injection septum 1272-pa1-meng-prs-0021 v1.0 FFA









Extraction C shaped kicker magnet

Non Circular Bellows



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Edge Welded Bellows Non Circular

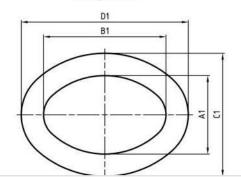
For special applications, for example as a handling system in the smallest possible <u>vacuum</u> space, non-circular diaphragm bellows are often used. Mewasa AG already offers you a larger selection of non-circular diaphragm bellows profiles made of 1.4404 (316L).

Thanks to our many years of experience, you also benefit from the possibility of realizing a new development specially designed for your requirements together with our R&D department.

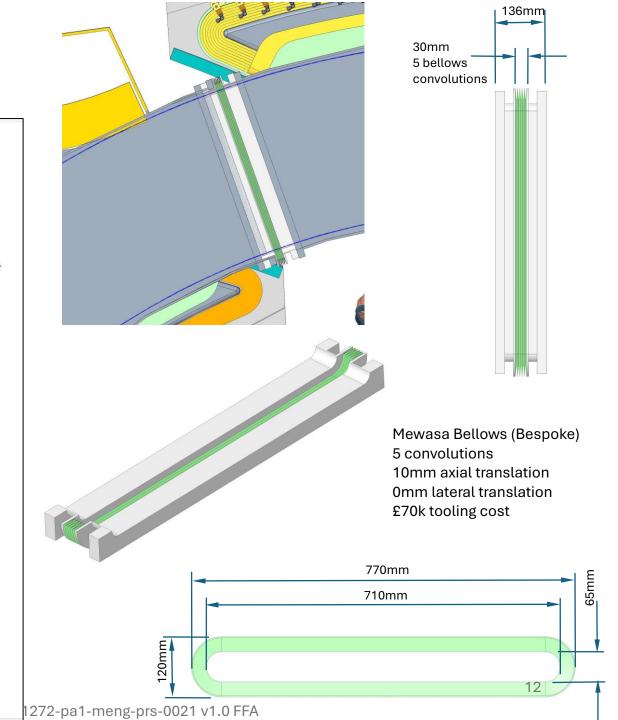
Racetrack

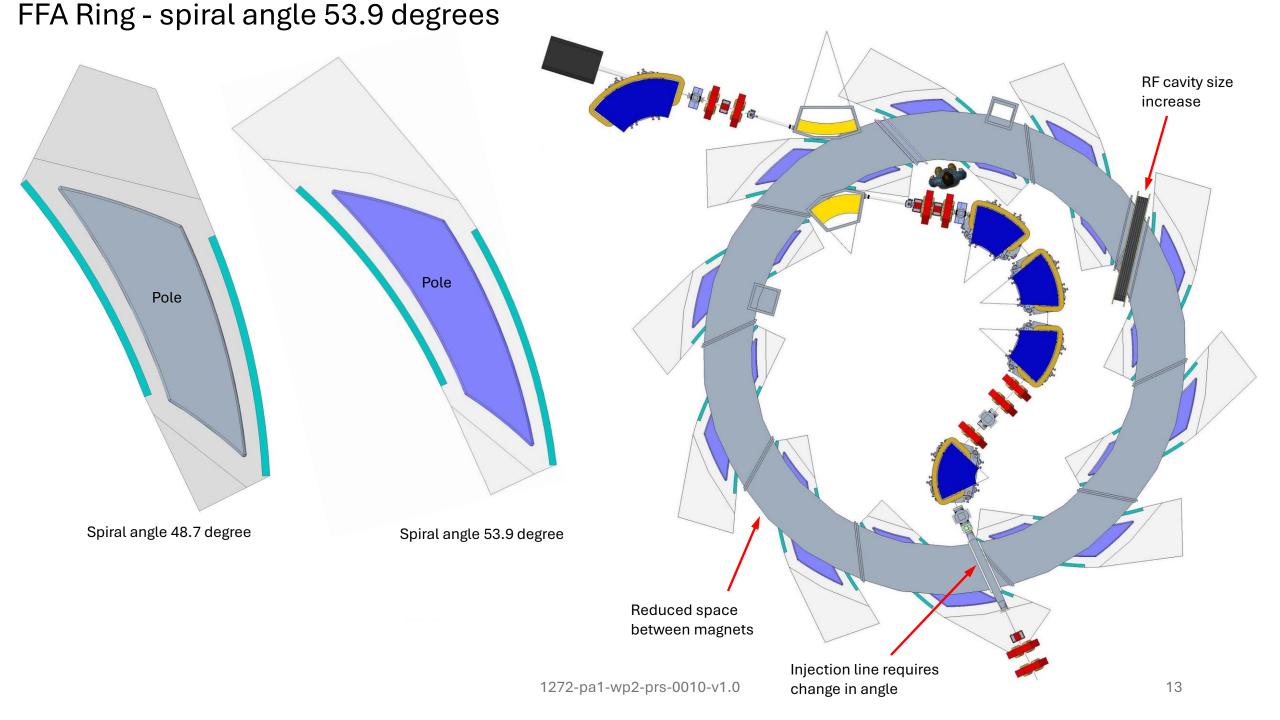
Тур	Α	В	С	D
1	24	42	34	52
2	28	130	48	150
3	30	194	50	214
4	40	130	60	150
5	62.3	220.8	90.3	248.8
6	75.5	158.2	103.5	186.2
7	75.6	235	103.6	263
8	92	318	120	346
9	70	372	98	400
10	160	1200	220	1260
11	320	1360	380	1420
12	80.4	149.7	98.4	167.8

Elliptical



		B1		
20	66.7	117.5	104.7	155.5





Injection Line

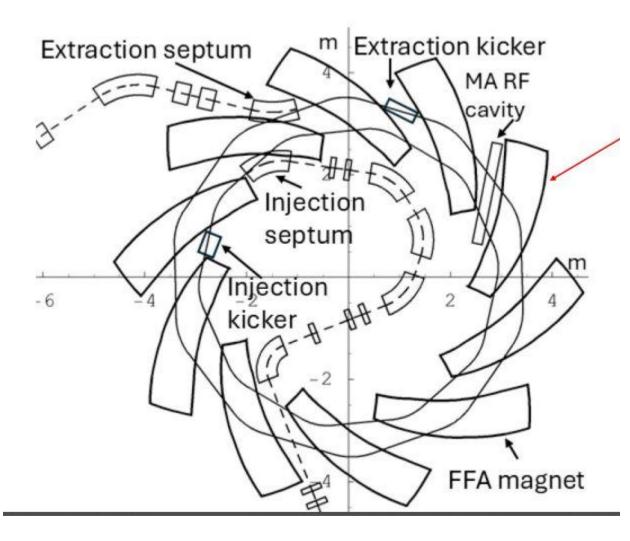
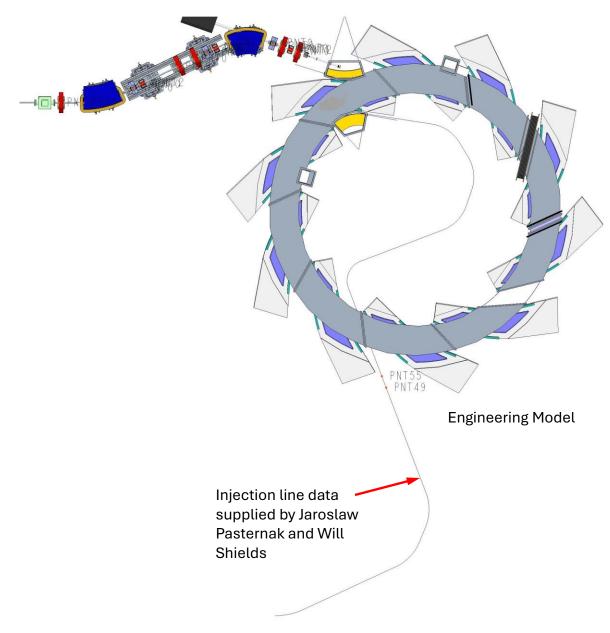
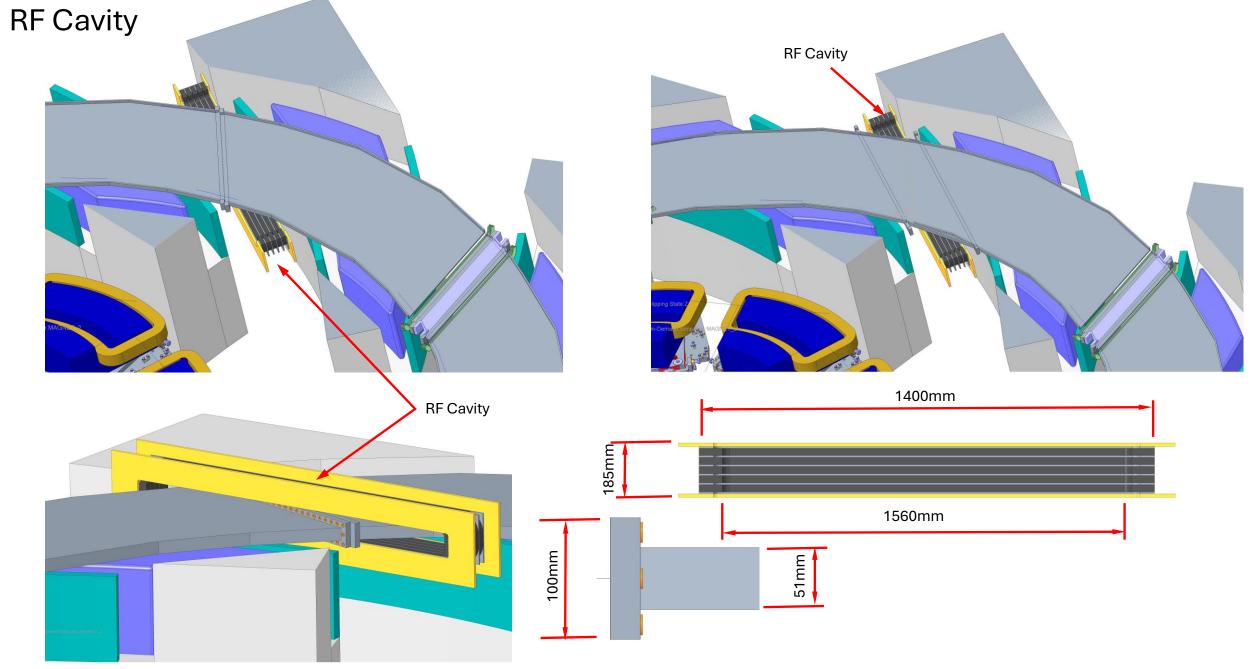
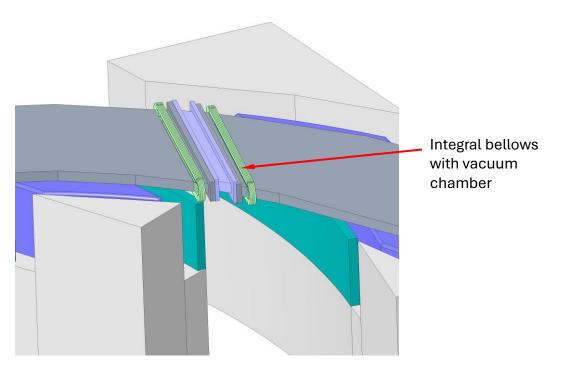


Image from Jaroslaw Pasternak

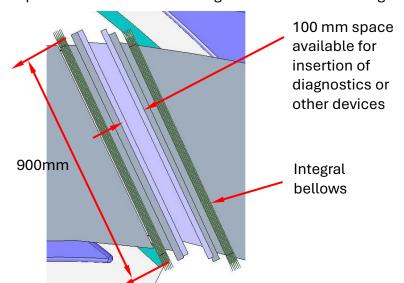




FFA Ring – space between magnets for insertion of devices (or bellows)



Space available between magnets with smallest flange size



Maximum space available between magnets

Red curves are

⁷⁰⁰mm

1200mm

1180mm

representative of the field clamp plates

Questions