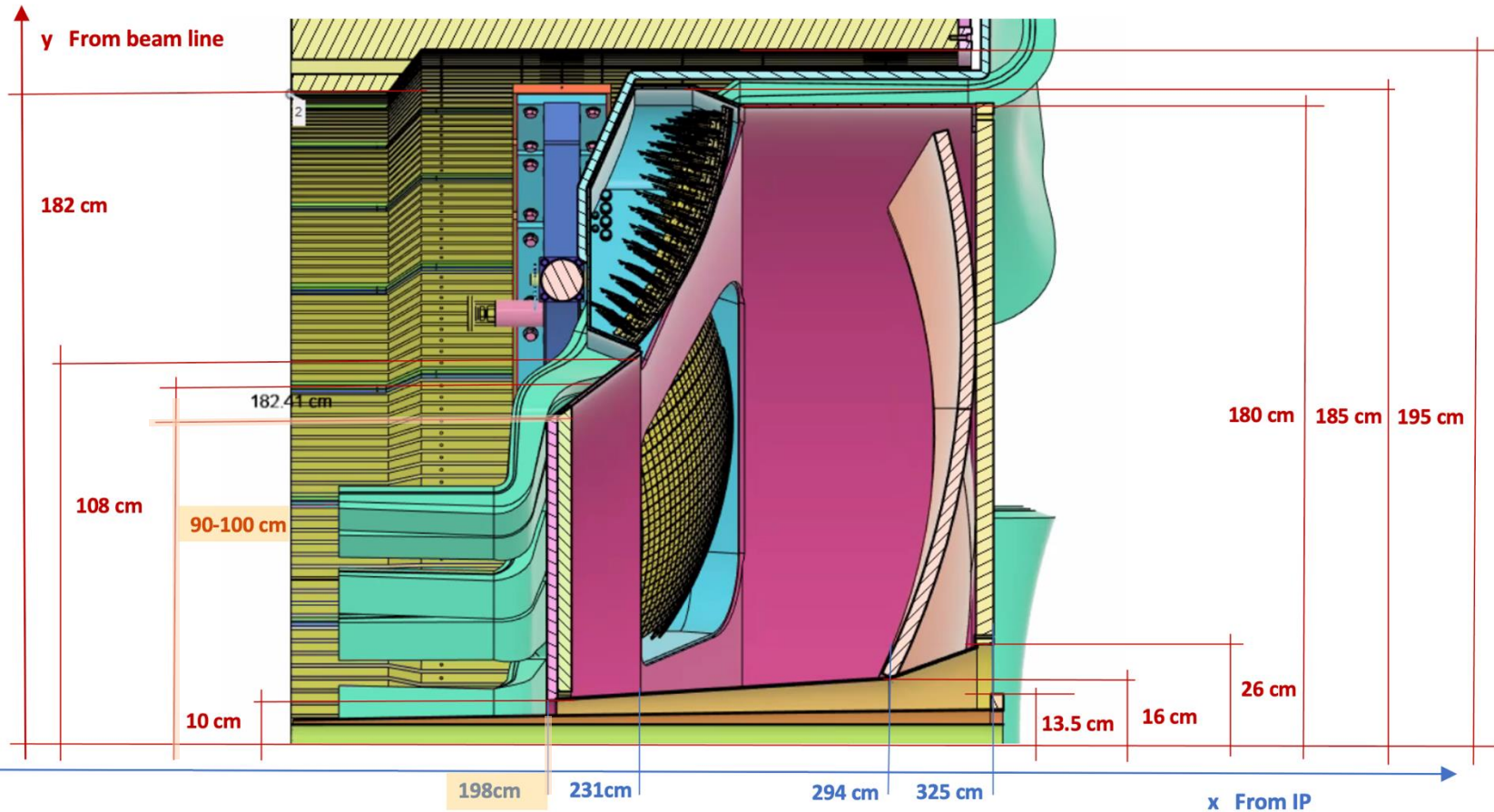News: +3 cm downstream shift with respect the IP, O(10 cm) tolerance in aerogel disk radius
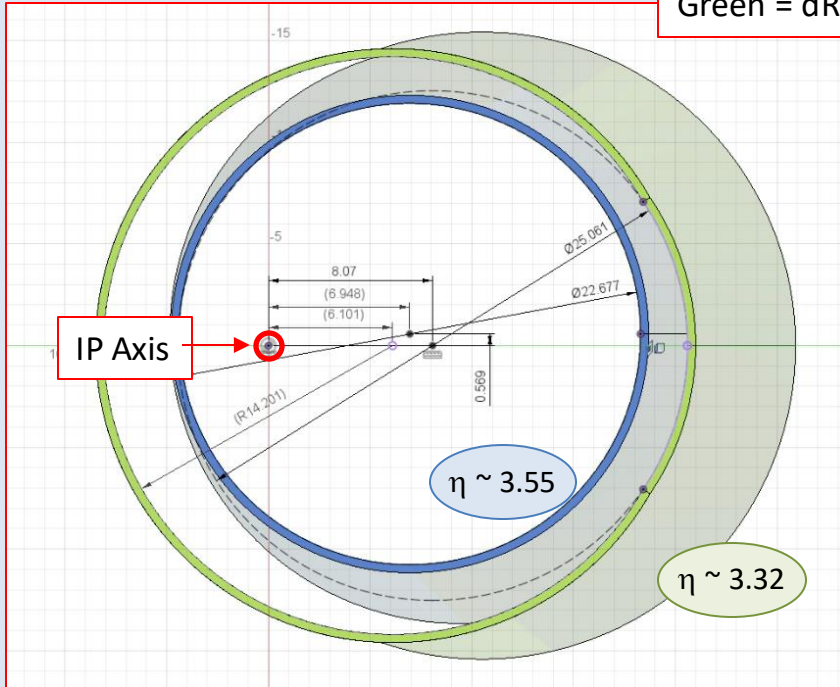

y   From beam line

182 cm

182.41 cm

108 cm

90-100 cm

10 cm

180 cm   185 cm   195 cm

26 cm

13.5 cm   16 cm

198cm   231cm   294 cm   325 cm

x   From IP

Clearance to Beampipe: 1cm

Blue = dRICH split
Green = dRICH one-piece

IP Axis

η ~ 3.55

η ~ 3.32

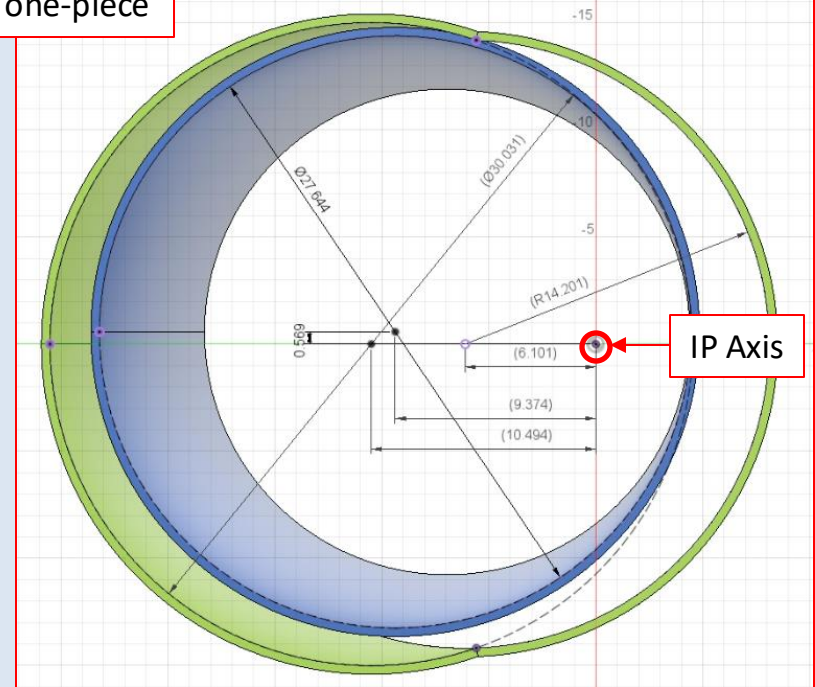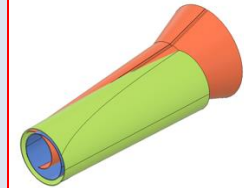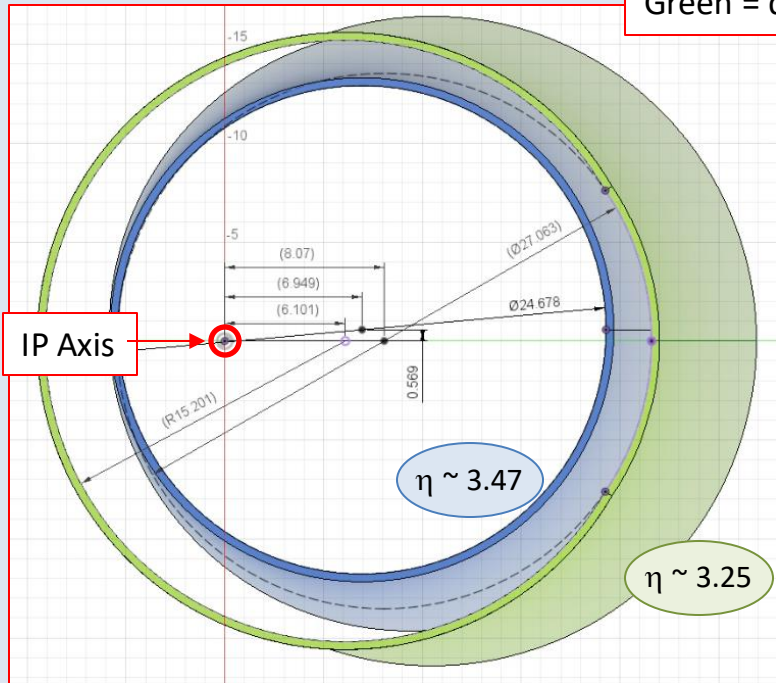From IP

IP Axis

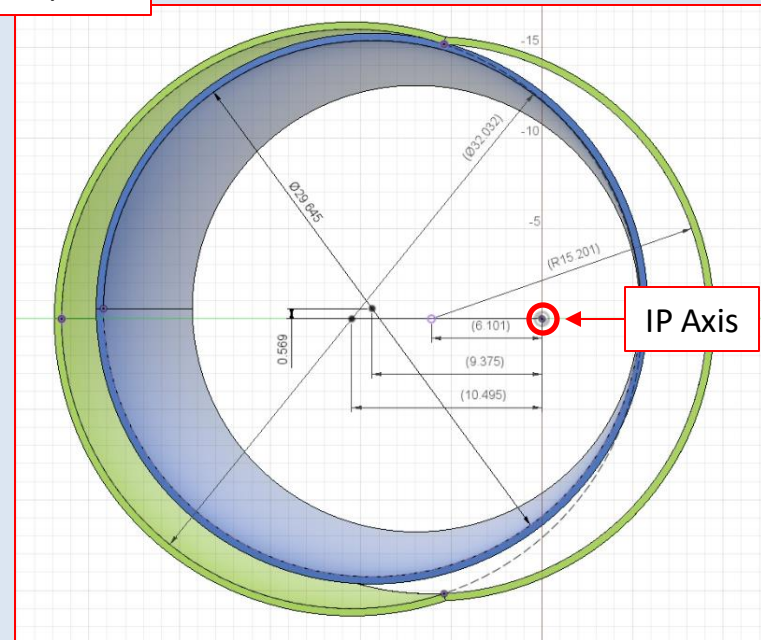Towards IP (At Conic Section)

Clearance to Beampipe: 2cm
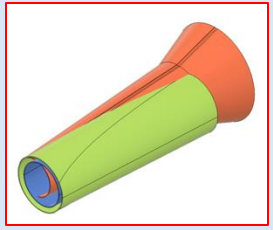
Blue = dRICH split
Green = dRICH one-piece

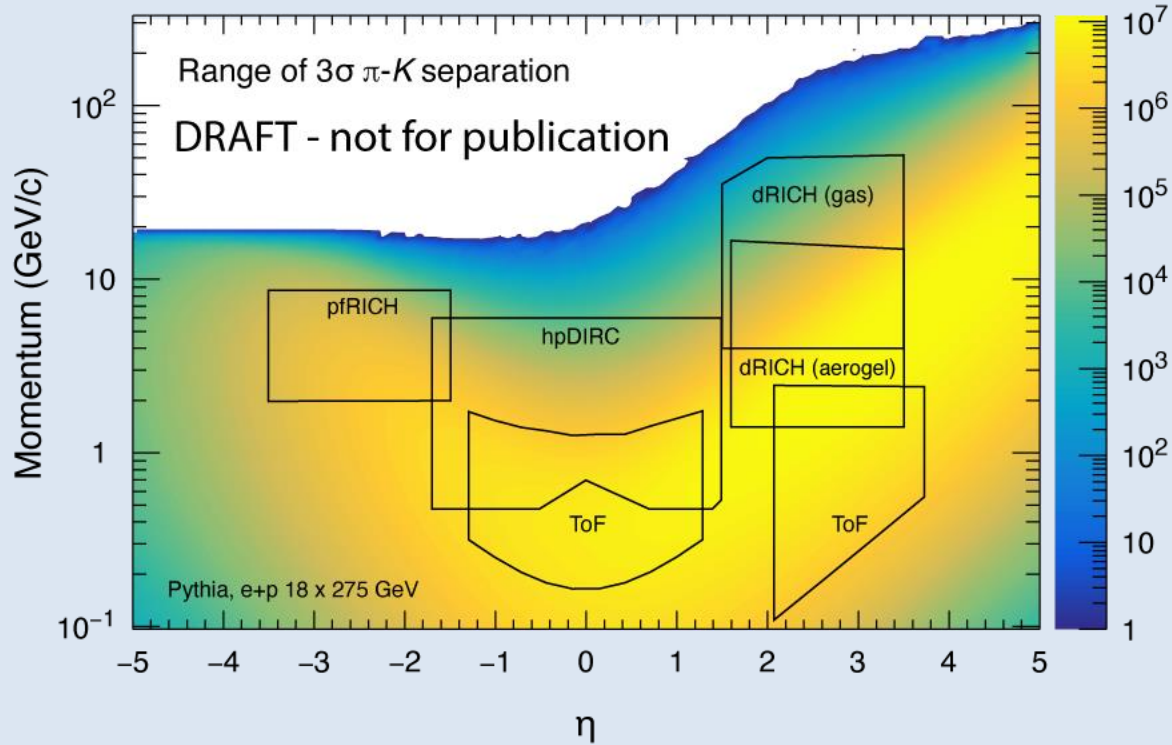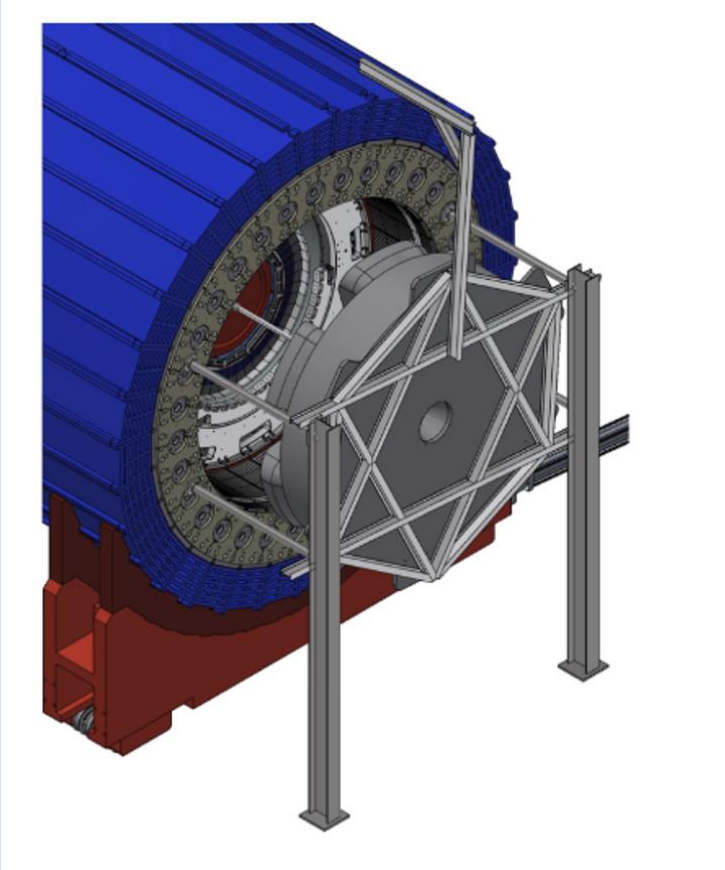From IP

Towards IP (At Conic Section)

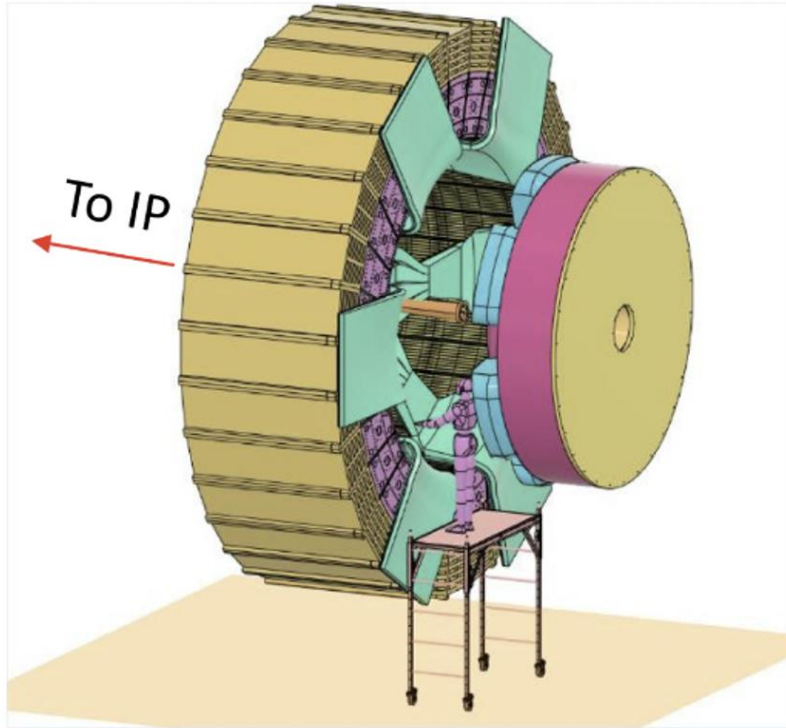Disk radius increase of ~5 cm to secure an overlap with hpDIRC an aerogel ?

(missing rotation around beam by 30 degrees)

Do support brakets conflicts with service routing ?

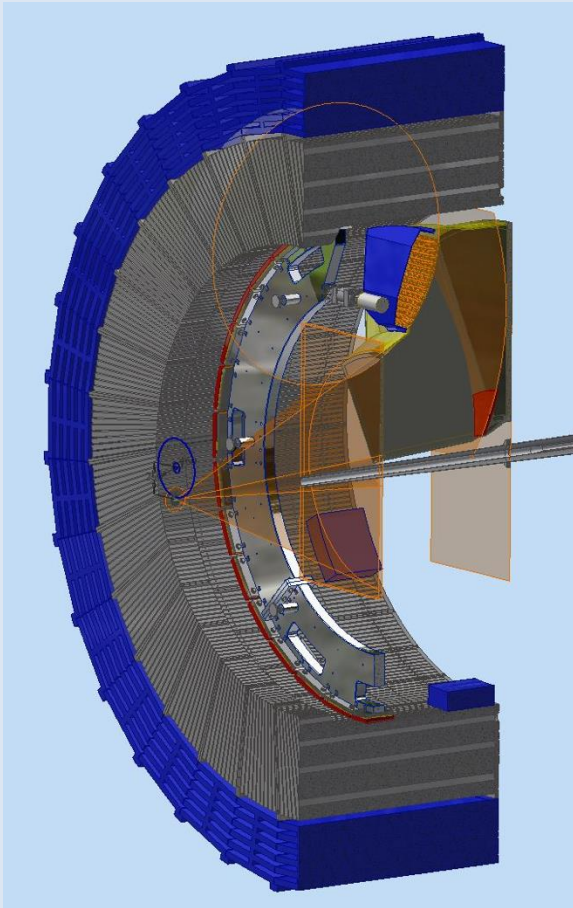Can the same structure allows to reach maintenance position ?

(missing rotation around beam by 30 degrees)
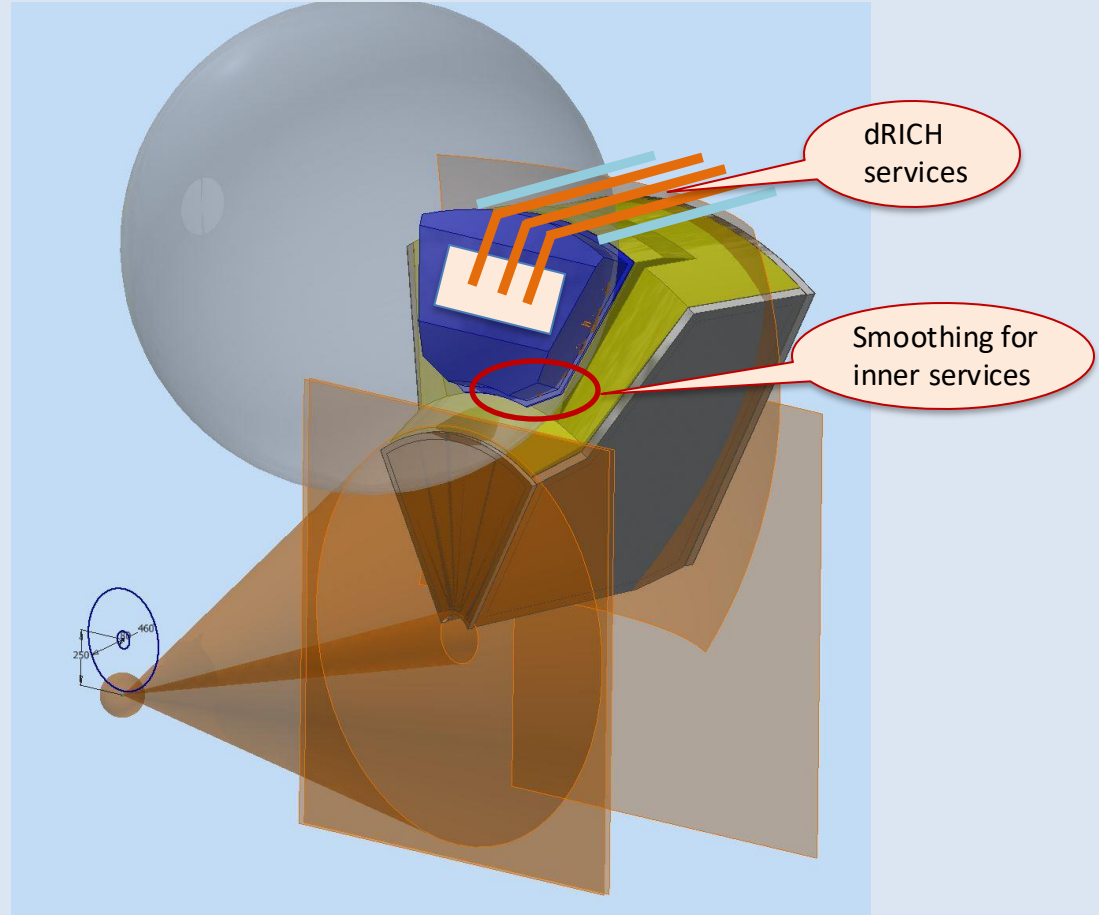
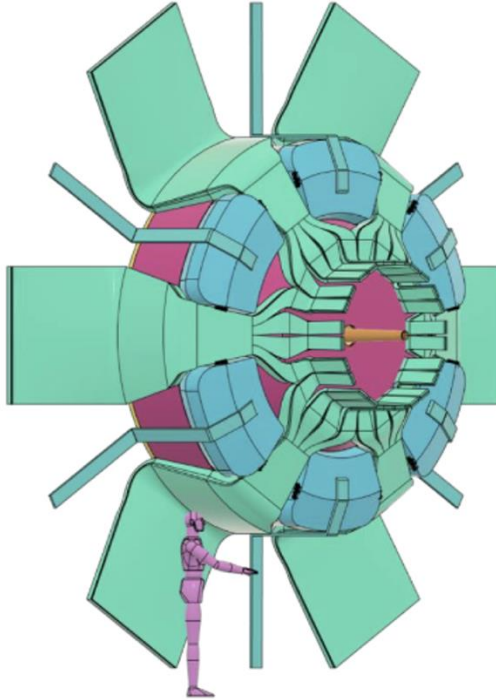Should services be detached while moving dRICH out of ePIC ?

Should services be detached while rolling ePIC out from IP6 ?

Scalable to the wanted shape

Baseline for the real-scale prototype

dRICH services

Smoothing for inner services

Total cross section of power lines should not be not an issue around 20 x 5 cm^2 per sector

Name	Voltage (V)	Current (A)	Channels	Boards	AWG gauge
Analog	1.4	10.0	312	39	10
Digital low	1.4	8.5	312	39	11
Digital high	2.7	6.0	312	39	12
Master panel	5.0	5.2	6	1	13
SiPM bias	64.0	1.3	12	2	19
Annealing	12.0	3.2	1248	156	15

Table 8.1: List of the voltage services to the dRICH electronics, indicating the number of primary power-supply channels and boards as well as the cross-section of the cables (AWG). The number of power-supply boards is defined assuming to use commercial 8-channel low-voltage boards.

New members:

Cooling: Carlo Mingioni (engineer, TO)
              Marco Nenni (engineer, TO)

Detector Box: Michele Melchiorri (engineer, FE)
              Antonio Grmek   (LNS)
              Giuseppe Laudani (PhD, LNS)