

**Overview MP checks** 

<b>1</b>	Status
Position/Gap Interlocks	
Local Mode Interlock	
Test Power Cut and PRS Reboot Interlock	
Test temperature interlock	
Test RBAC interlock	
Test MCS-Collimator role info	
Goniometers Replacement Chamber Interlock	

i Collimation system testing and commissioning, following the MPS procedure EDMS-889345.

08/03/24

 Position, energy, β\* limits of all ring collimators tested and validated

 Local mode interlock carried out for one ring collimator per BIC

✓ PRS reboot carried out for one ring collimator per BIC

→ ✓ Temperature completed for all ring collimators

✓ No devices in the inconsistency list found with Parameter Configuration Application

✓ Only interlock on replacement pipe tested

Interlock on limits postponed to new FESA class validation (crystals not used with p)

Links to the elog and collimation web page with detailed information in the checklist



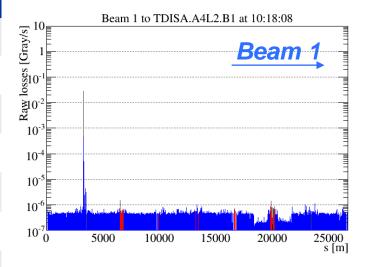
## Status waiting for first beams – Threading

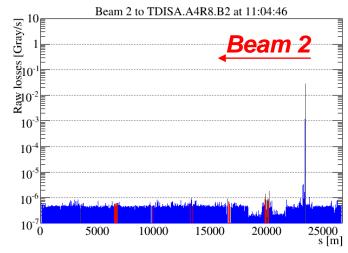
• Beam left "circulating" step-by-step: collimators used to stop the beam in each IR (except IR4...)



## a.k.a. Threading

Beam 1	Beam 2	
TDIS[A B].A4L2.B1	TDIS[A B].A4R8.B2	
TCP.6L3.B1	TCP.B6R7.B2	
TCTPV.4L5.B1	TCSP.A4L6.B2	
TCSP.A4R6.B1	TCTPV.4R5.B2	
TCP.B6L7.B1	TCP.6R3.B2	
TCTPH.4L8.B1	TCTPH.4R2.B2	
TCTPH.4L1.B1	TCTPH.4R1.B2	





Ring coll. at: LD = 0.5mm, LU = -1mm, RD = -1mm, RU = -2.5mm TDIS[A|B] at: L = [4.0|-2.5], D = [2.5|-4.0]

BP and sequences tested and ready for first beam



## Status waiting for first beams – Coarse settings

Reduced set of collimators at COARSE settings

Assuming no surprises will be found in aperture measurements!

		Setting		
Collimator IR	lnj.	FT (first ramp)	FT (if squeezing or INDIV)	
TCP (H&V)	7	8 σ	20 σ	8 σ
TCSP	6	9 σ	25 σ	9 σ
TCP	3	12 σ	30 σ	30 σ
TCTP	1/2/5/8	±15 mm	±15 mm	10 σ/±15 mm/10 σ/15 σ (@30cm)
TCDQ	6	20 mm	20 mm	20 mm

<sup>✓</sup> Linear interpolation of settings from injection to FT

BP and sequences for coarse settings ready



<sup>✓</sup> Two set of FT settings defined whether or not beams get squeezed: collimators kept fixed after reaching FT

