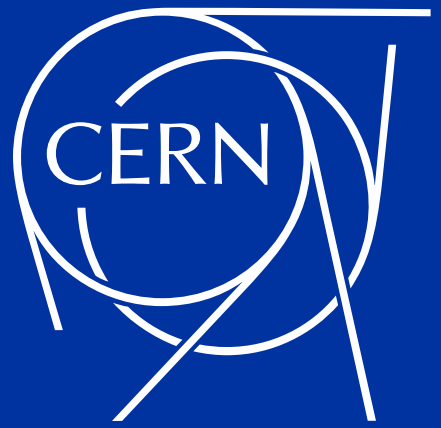
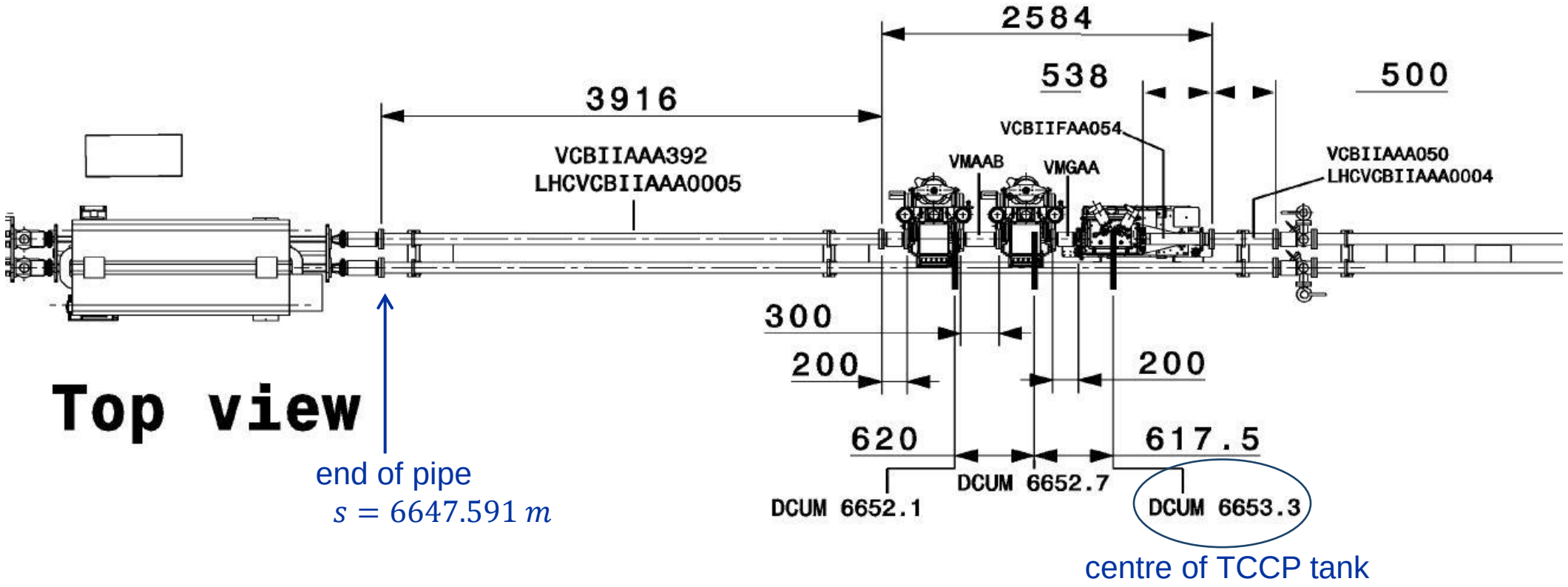


IR3 BLM positions for TWOCRYST

Chiara Maccani

04/07/2024

IR3 layout



➜ Try to create the conditions for the channeled beam to go out of the pipe in a range of $d = 5.709\ m$ left from the centre of the TCCP tank

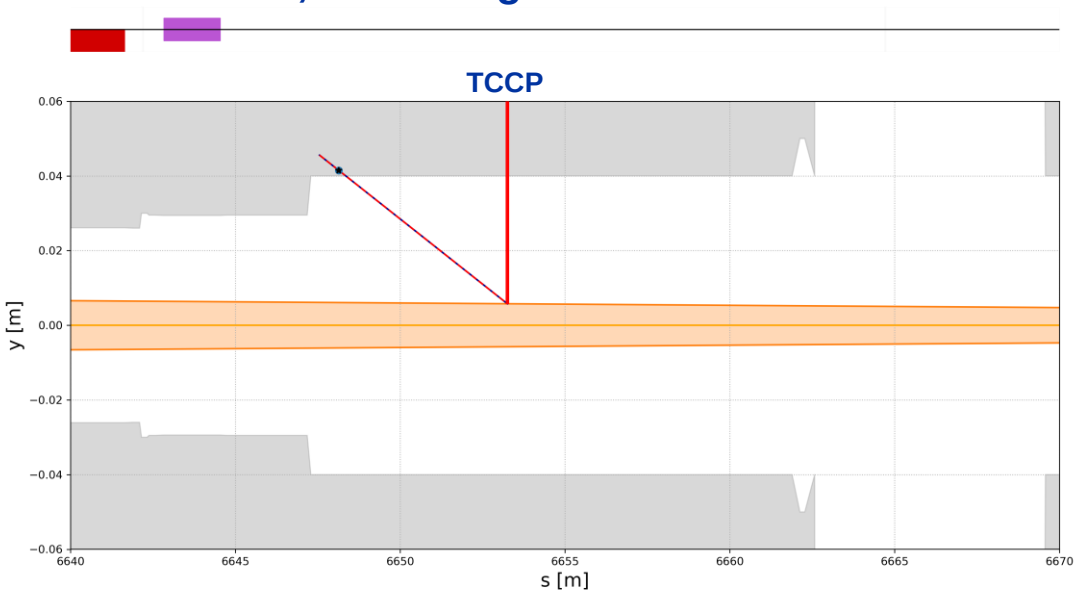
TCCP directly into the beam

	Energy [GeV]	Settings σ	s_{chann} [m]	d_{from_TCCP} [m]
	450	5	6648.353	4.947
➜	450	4	6648.135	5.164
	1000	5	6647.995	5.305
➜	5000	8	6647.787	5.513
	5000	5	6647.589	5.711

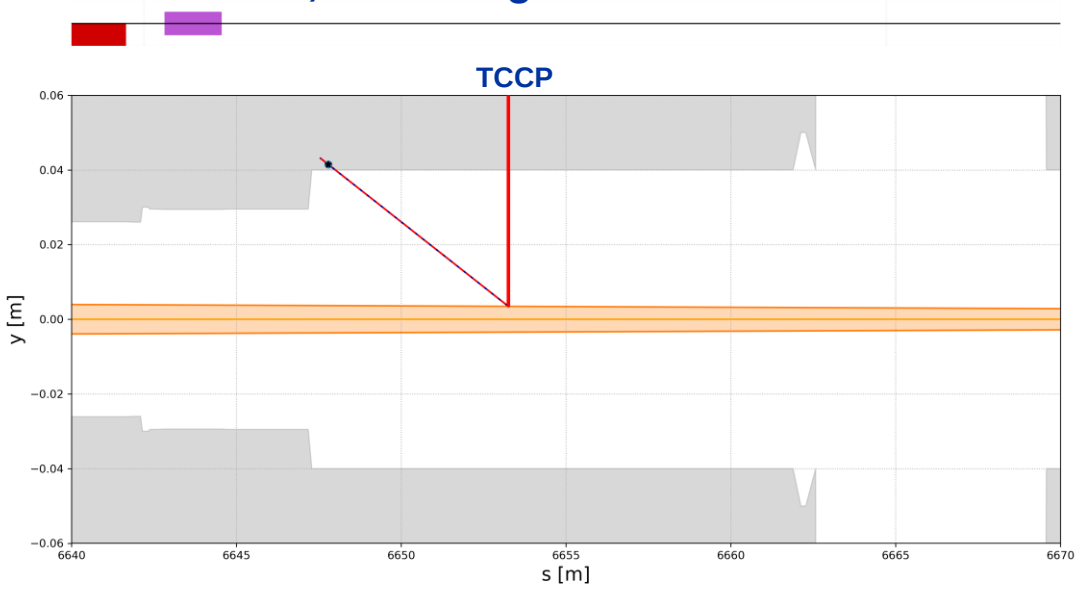
Use tight settings at injection, relaxed at higher energies

➜ **Proposal**: put BLM at $\boldsymbol{s = 6647.8\,m}$ ($d = 5.5\,m$ left to the centre of TCCP tank)

- **450 GeV, 4σ setting**



- **5000 GeV, 8σ setting**

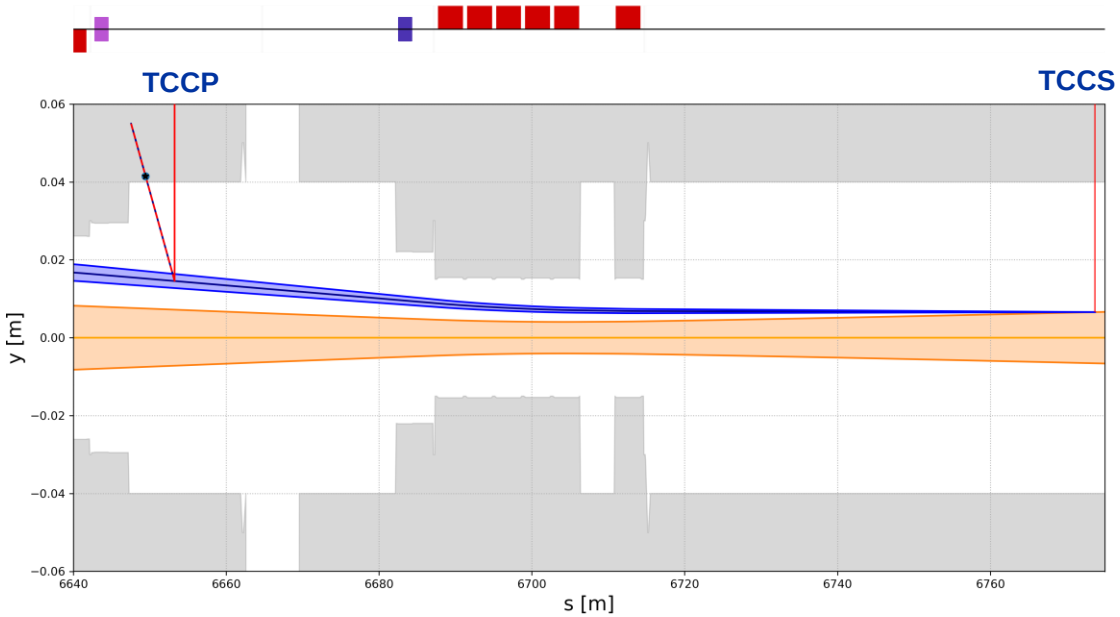


Double crystal set-up

Energy [GeV]	Settings σ	s_{chann} [m]	d_{from_TCCP} [m]
450	5	6649.452	3.848
5000	5	6648.982	4.317

➜ **Proposal**: put BLM at $\boldsymbol{s = 6648.4\ m}$ ($d = 4.9\ m$ left to the centre of TCCP tank)

- **450 GeV, 5σ setting**



- **5000 GeV, 5σ setting**