

# AOB: strategy for roman pot settings

- Request by Totem to go closer to the beam in physics 2016. Discussed by S. Redaelli in LMC 6/4/2016
- Proposed strategy for the closest approach of TOTEM's horizontal pots in cell 6:
  - accept 15 sigmas as closest approach (instead of initial 17 sigma)
  - initial validation: XRP at closest settings without orbit margins
  - add initially — at least until TS1 — an orbit margin of 500um
- Proposals for additional checks before reducing orbit margins:
  - Monitor the orbit at XRPs with 40cm during intensity ramp up (including checks of losses, software stability, vacuum, etc.)
  - Monitor the orbit at TCT's, and deployment of SIS on BPMs.
- If possible: end of fill to test settings of 15sigmas without orbit margins (tricky, as it would have to be outside Stable Beams).

# Phase advances to roman pots

- Using 2016 40 cm optics. Some phases outside specified 20 deg

roman pot	fractional phase from MKD (deg)
XRPV.C6R5.B1	196.344
XRPH.C6R5.B1	196.6288
XRPH.D6R5.B1	205.0045
XRPV.D6R5.B1	205.6572
XRPV.A6R5.B1	208.318
XRPH.A6R5.B1	209.1438
XRPH.E6R5.B1	210.3862
XRPH.B6R5.B1	220.518
XRPV.B6R5.B1	222.0829
XRPV.C6L5.B2	18.396
XRPH.C6L5.B2	18.72216
XRPH.D6L5.B2	28.3194
XRPV.D6L5.B2	29.06568
XRPV.A6L5.B2	32.09832
XRPH.A6L5.B2	33.0372
XRPH.E6L5.B2	34.4466
XRPH.B6L5.B2	45.77472
XRPV.B6L5.B2	47.49156