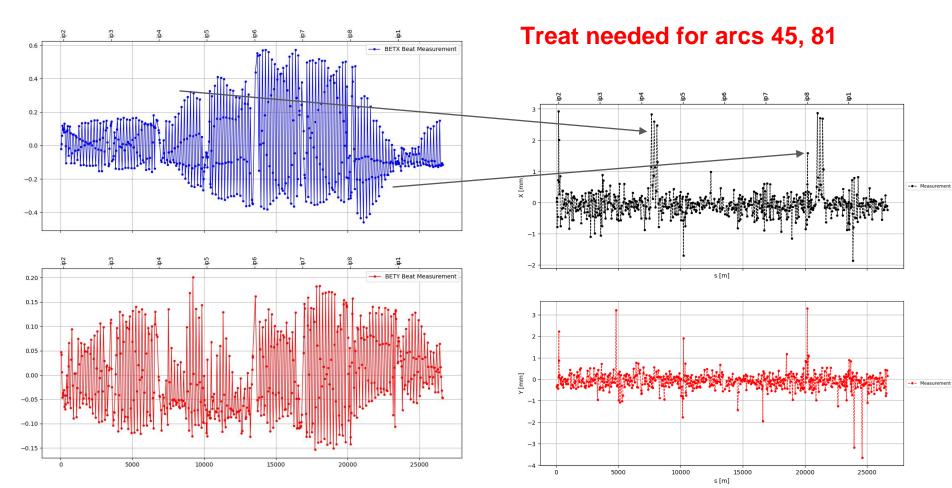
HL-LHC MD corrections and Dy from 60 deg MD

Yannis Angelis OMC Meeting 17-09-24

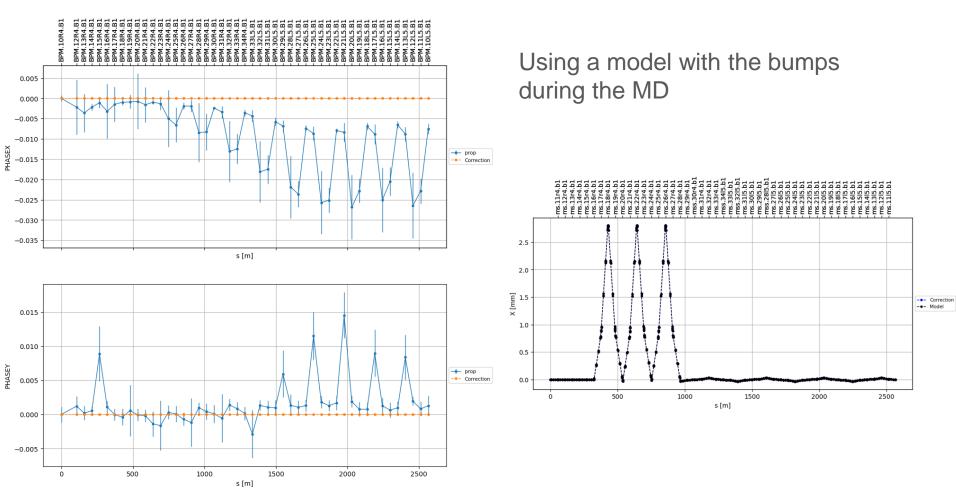
Contents

- HL β beating corrections for arc45 and arc85 with local orbit bumps
- 60 deg MD Dy, for both beams including mq tilts and orbit effects

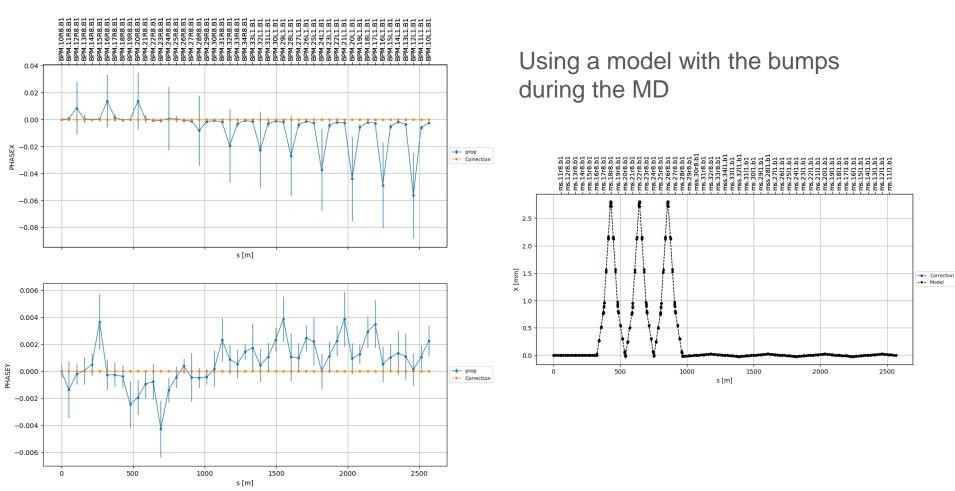
Beam 1 Correction Used (logbook entry)



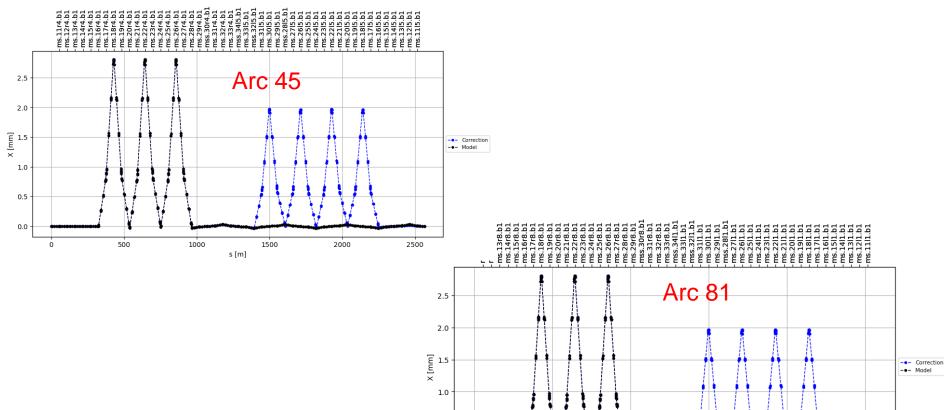
Current Correction Arc 45



Current Correction Arc 81



Similar bumps at L5 and L1 side of the arcs



0.5

0.0

0

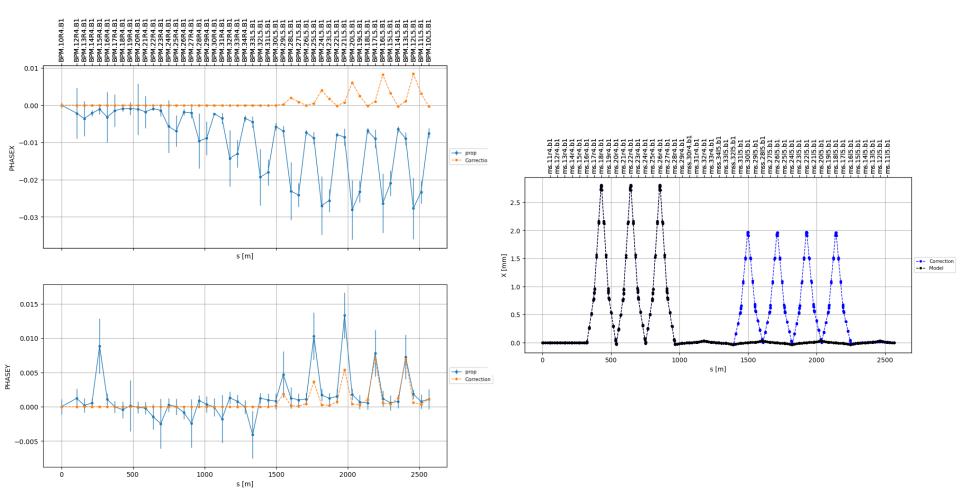
500

1500 s [m] 2000

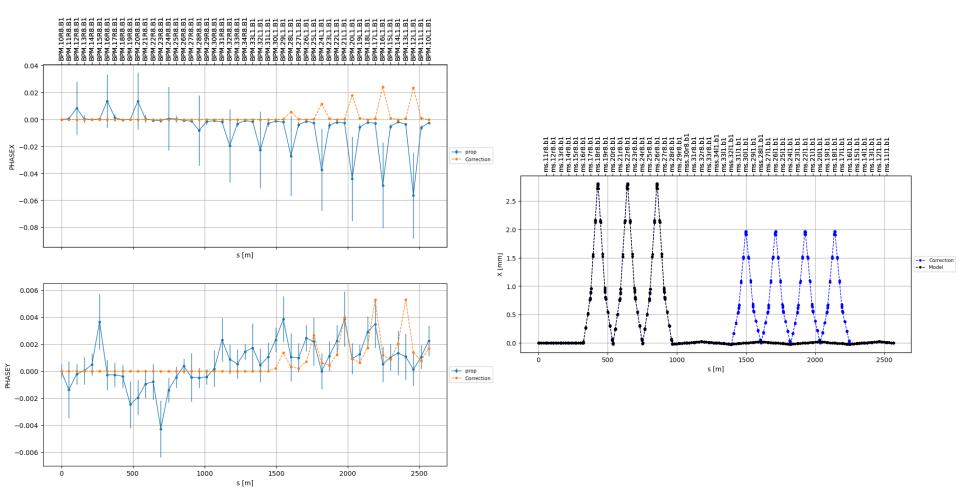
2500

1000

Arc45 Beam 1

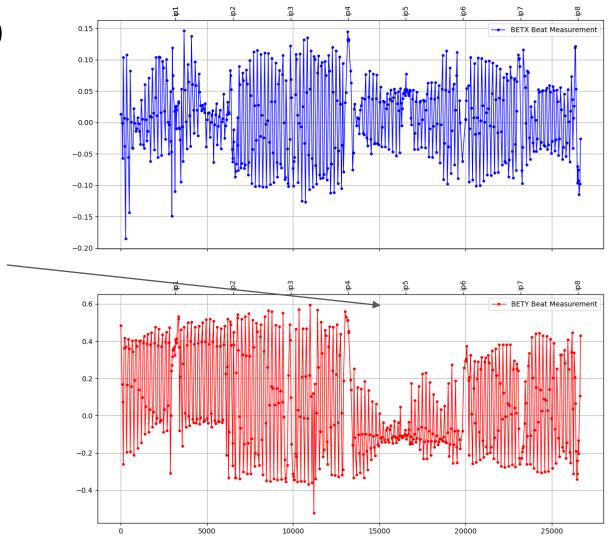


Arc81 Beam 1

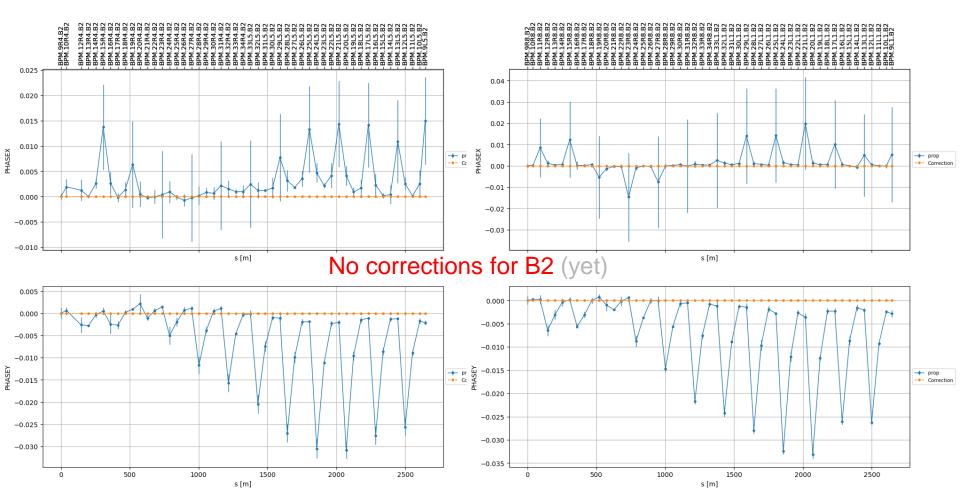


Beam 2 (logbook entry)

Arc 45?



Arc45 and Arc81 Beam 2

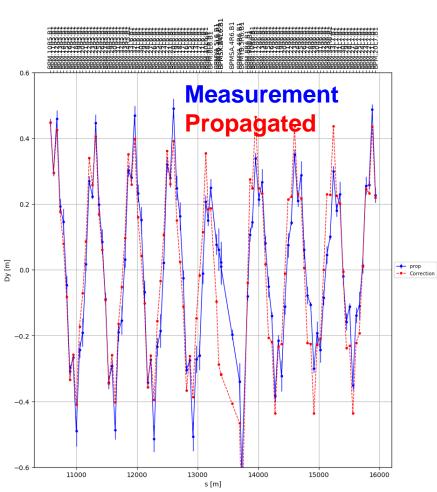


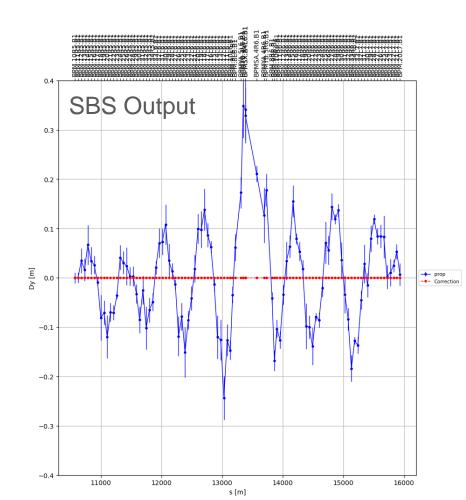
60 deg MD Dy (Preliminary)

MQ tilts and orbit

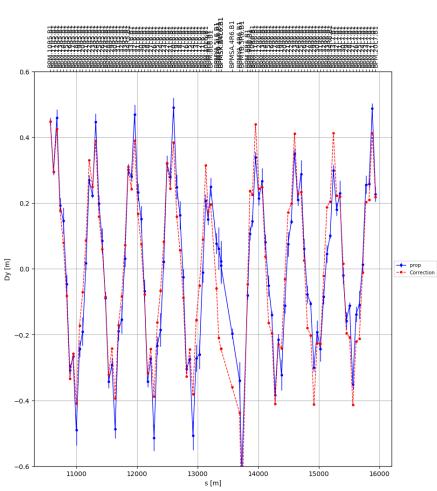
- The usual suspects (MQ.29R5.B2 along with 21 and 25)
- Orbit correctors strengths extracted from Isa (RCBV11.R5B2-RCBV29.R5B2)

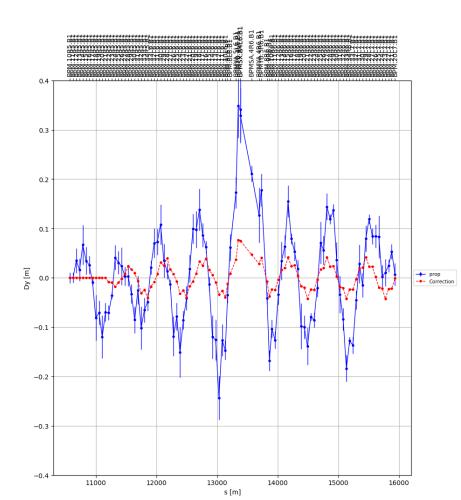
Beam 1



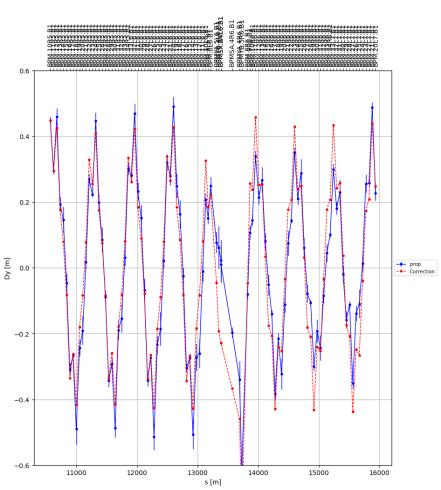


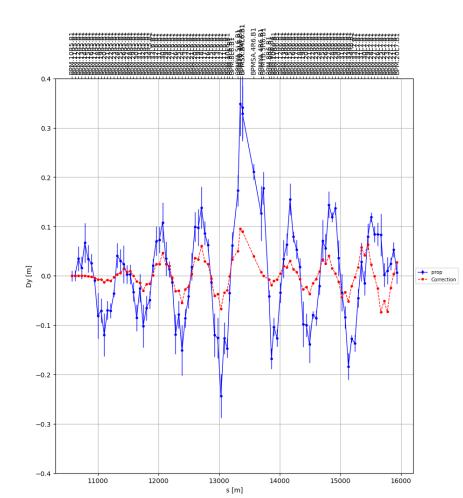
Beam 1, MQ tilts



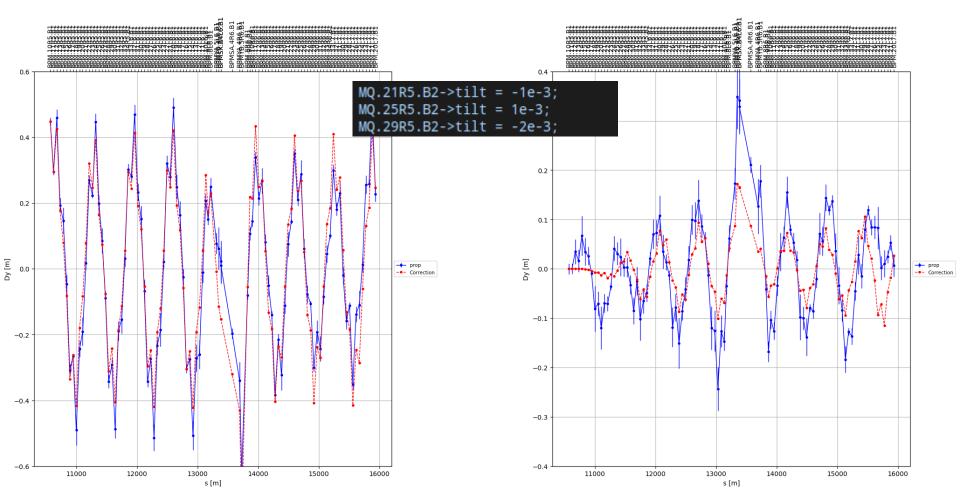


Beam 1, orbit correctors

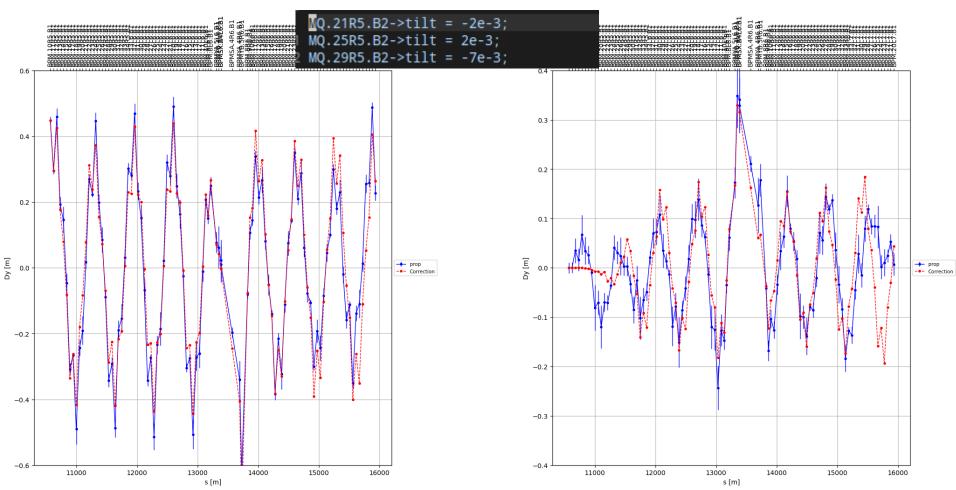




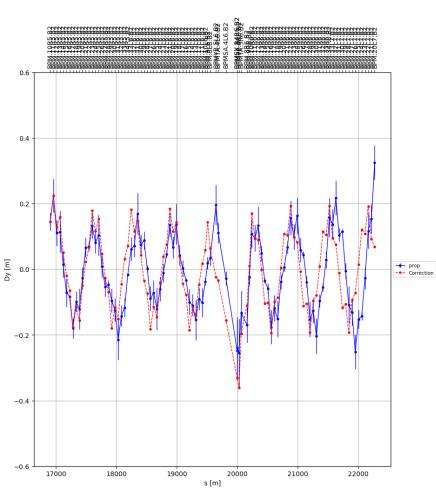
Beam 1, orbit cor and MQ tilts

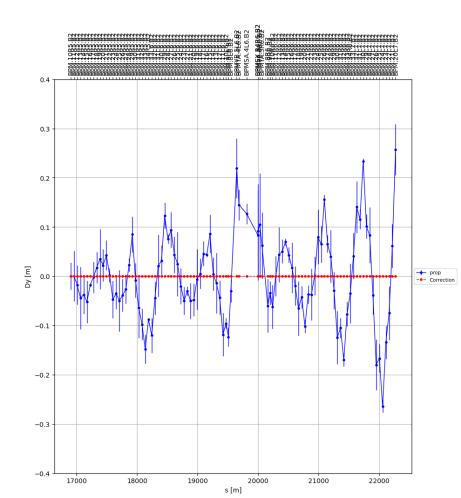


Beam 1, orbit cor and MQ tilts

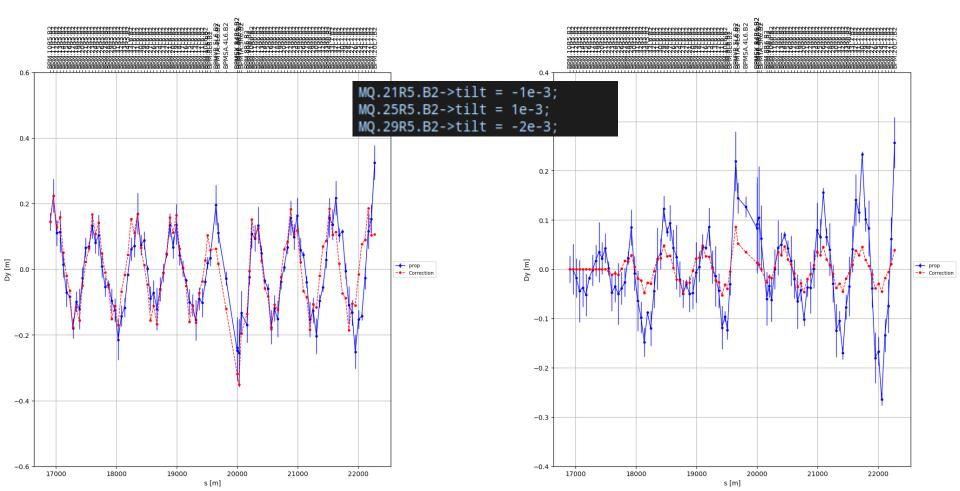


Beam 2

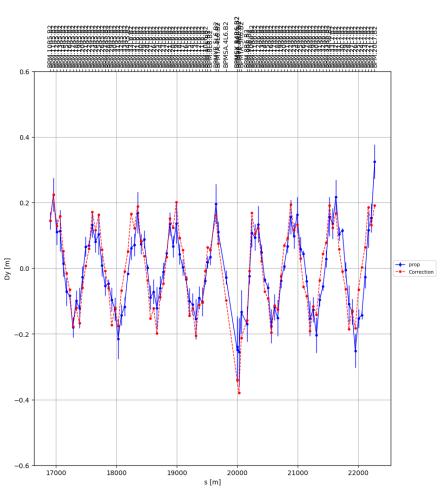


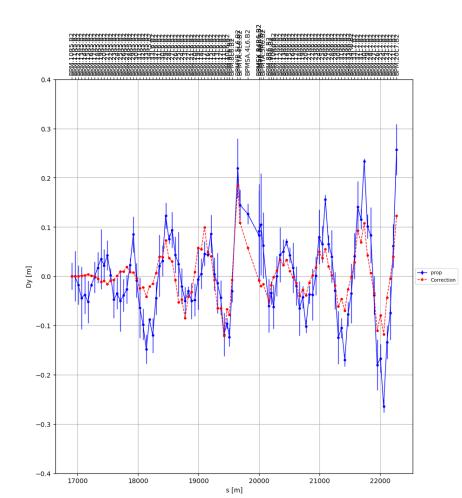


Beam 2, MQ tilts

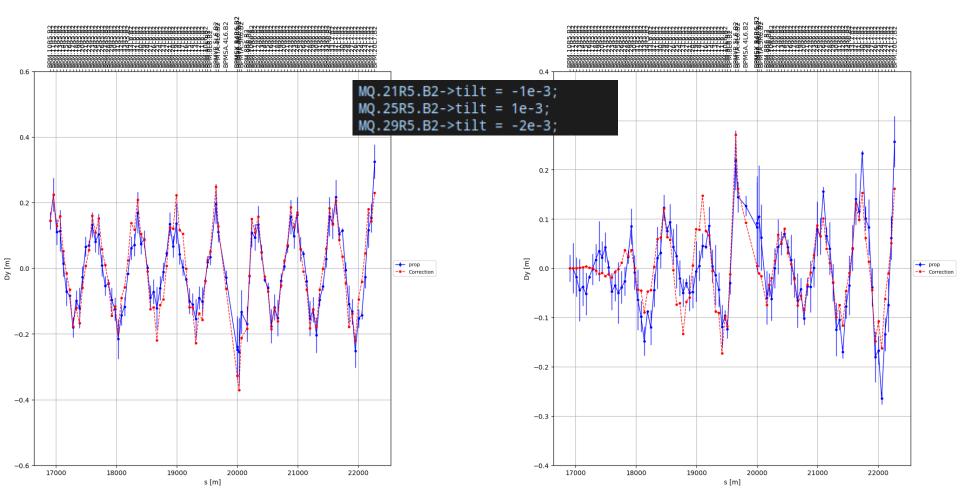


Beam 2, Orbit correctors





Beam 2, Orbit correctors + MQ tilts



Beam 2, Orbit correctors + MQ tilts

