

Beamline Optics Meeting Sunday parallel.

Meeting 14:00 GMT, CR12, R68.

Agenda

0. status [15]
1. Outline Plan. *Incl: – Envisage: Tgt pulse 21st onwards? Q1-B2 at least available.*
Dets:- IC,Ge,Ckov1a&b [15]
2. Detailed Optics Activities.
 - Proton Optics. [30]
 - Model & Alignment checks [30]
 - Beamline monitors IC & Geneva [30]
 - Detector calibration beamlines. Particle production? [15]
 - Pion/muon beamlines [15]
3. G4 Codes [&experts]
4. Review response
5. Shifters (really for later meeting)

Agreed Plan of who does what.

AOB

Beamline Optics Meeting Actions, date: 18th Jan 2007.

Actions

Actions since December 6th:-

- Marco to produce dispersion & typical beam profiles at diags from Turtle. **ONGOING**
- KT to determine suitability of TOF0/1 resolution (alignment/beamsize).

Actions since December 19th:-

- HN to take wide G4BL input beam & output profiles at U1, D1, D1_perp, TOF0, TOF1, Tracker for cm14 lattice ie to include backgrounds. Use appropriate detector segmentations – speak to KT for advise. G4BL support from CR/TJR. **By 18th**.
- KT to try standardisation for magnets as discussed. **[Jan tests]**
- KT to continue to develop commissioning plan. **ONGOING.**
- KT to determine practical pion alignment/flux/spot size optimisation scheme **ASAP.**

Actions since January 7th:-

- TJR to forward updated G4BL input deck describing cm14 case, point to his field maps & input beams: narrow beam & beam secondaries.in. for others to use. **ASAP.**
- TJR to update g4bl to output effective length used during dipole field tuning.
- CR to put pions through full beamline from target & compare to muons downstream. **By 18th**
- KT to organise discussion of beamline/target startup procedure. **ASAP**

Actions since January 18th

- KT to create new optics without decay solenoid, proton absorber, TOF0 for startup. [pions, protons] By Jan 25th.
- TJR to outline developments (polarity, proton absorber) & starting conditions to MICE news. **ASAP**
- MA to visit for polarity checks 20th – KT to arrange radiation protection badges. **ASAP**

Actions to complete response to BL review report:-

See actions at back of Beamline review response document (mainly on KT)

6. MA continuing to document dispersion with TTL/TPT @ diags & @ MICE. Useful to present based beam profiles also from TTL. (MA)
14. Simulate the V/H alignment sensitivity of U1,D1,D1-perp for pions, D1 for muons. (CR? Who?)
15. Confirm suitability of TOFs for beam alignment measurements. Consider 9cm accuracies, and TOF1 resn's. Determine scheme for quad alignment checks & determine if TOFs suitable for this (different beamsizes etc). (KT bug ME)