

K-Modulation Beta* measurement

Motivation

- Beta* measurements by K-Modulation have been widely used for optic studies
- A dedicated application has been developed
 - It is proposed that it becomes a standard OP tool
 - Then it needs to be fully tested before it is handed out to the end-user

MD proposal

Measure Beta* at 1-2 IPs using the dedicated application

Requirements

- Time: 2 x 30 min
- Beam: any
- Beam process: any squeeze
- ♦ Can be combined with other MD at the end of fill
- Expected results:
 - Beta* measurements become part of routine operation



Chromaticity decay at flat-top

Motivation

- Chromaticity decay is observed at flat-top
- Respective correction (QPV = 4.5 units) takes additional 340 seconds at the end of ramp beam process
- Proven method of correcting chromaticity at injection can be applied at flat-to
 - Model required
- MD proposal
 - Measure uncorrected chromaticity at the beginning of the flat-top
 - Correct chromaticity with FiDeL mechanism and measure
- Requirements
 - Time: 3 x 20 min + 2 x up to 1 h (if required)
 - Beam: any
 - Beam process: dedicated ramp (without flat-top part)
- Expected results
 - Ramp beam process time reduction by 5.5 minutes

