Response fits

• BPMs:
  • H + V BPM scale off by a factor 0.91 +/- 0.02.
  • Alternative is that the CODs are off...
  • BPKs still noisy (first 2 are worst).

• BPMIs:
  • In H plane all are OK.
  • In V plane:
    • BPMIV.815: wrong sign + frequent 'crasy' readings (~ +/- 40 mm)
    • Others seem Ok – to be confirmed (missing data to be completed & cleaned).

• Main Q strengths: values confirmed...
  • KQF = 0.03389 m-2 0.03386 nominal
  • KQD = -0.03411 m-2 -0.03384 nominal
Dispersion : MD2

Global fit .... does not fit all line !!

--> (small) optics error in the line ?
Dispersion H : begin/end

Clear (?) difference between begin/end:

- had already a hint of that from the previous MD...
- rather sensitive to the measurement details.

Note: the values for initial conditions can be added as such directly to the nominal initial conditions!
Dispersion H : 'real' space

- For fit over entire line....
- Despite imperfections, not bad for a start !!
Dispersion V

Initial conditions ~ consistent with 0...

![Graph showing Dispersion V with data points and error bars, indicating initial conditions consistent with 0. The graph includes parameters $D_0 = -0.014 \pm 0.015$ (m) and $dD_0/ds = -0.001 \pm 0.000$.](image)
Dispersion V : 'real space'

- A very nice agreement.
- Confirms small initial dispersion from SPS.

This BPM (V.81504) has wrong sign + erratic behaviour (frequently returns +- 40mm).