

- Engineering Run data analysis – ongoing:
 - trajectory response matrix measurement,
 - dispersion measurement,
 - quadrupolar scan,
 - multiple profile measurement,
 - Beam Loss studies.
- Main activity in January:
 - installation of CUPID system (without aperture control) on GTH2DFA scintillating screen – allows more precise beam setting and facilitates quadrupolar scan for emittance measurement.

Example of quadrupole scan

- Preliminary results for HADES beam line optics used for physics test.
- Location of the measurement is not dispersion free; model dispersion: 10m, measured 1.5m (large discrepancy!); However dp/p for quadrupolar extraction is very small, so dispersion effect should be small.
- Beam size varies during spill by ~10%
- MADX model gives:
 - $\beta_x = 136.5$ m
 - $\alpha_x = 14.15$
- Emittance - very small, typical number used 0.25 mm*mrad

