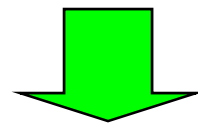


Transverse Beam Matching and Orbit Corrections at J-PARC LINAC (MOP078)

H. Sako, A. Ueno, T. Ohkawa, Y. Kondo, T. Morishita; JAEA

M. Ikegami, H. Akikawa; KEK

- Transverse matching and orbit corrections with H⁻ beams at 5~30mA in 181MeV LINAC
 - Transverse matching corrections for profiles measured by WS's with QM's
 - Emittance and Twiss parameters measured
 - Corrections for beam orbits measured by BPM's with STM's

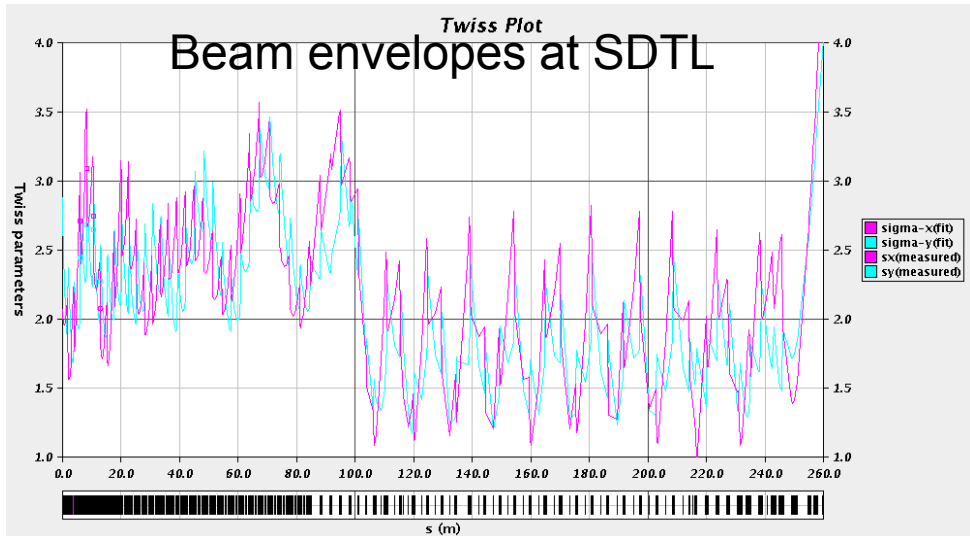


**Model-based correction methods and
procedures established**

Highlights

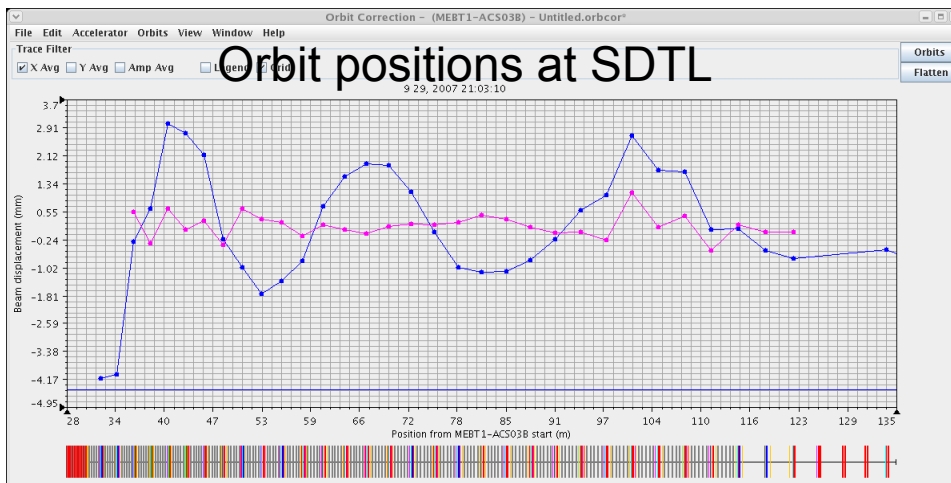
MOP078

- Transverse matching



Mismatch factor < 5%

- Orbit corrections



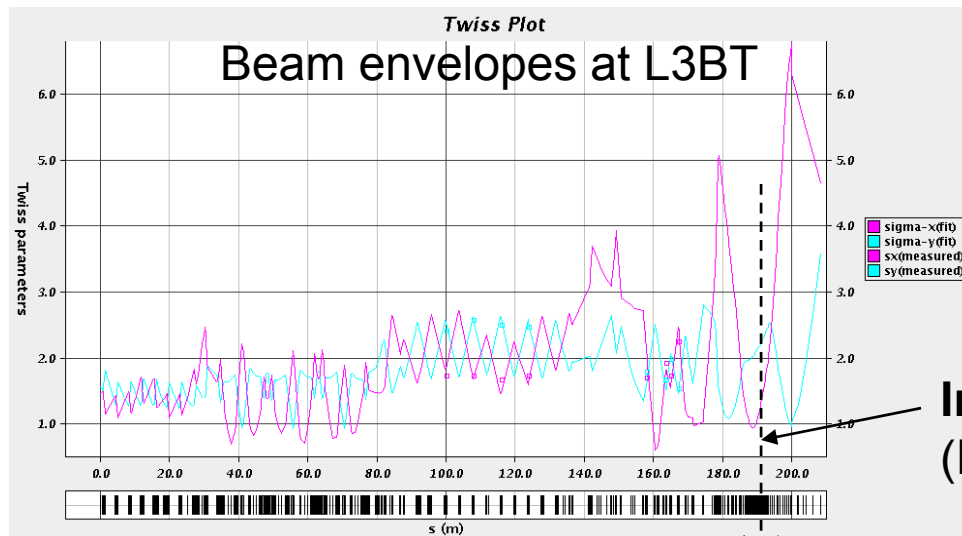
Orbit displacements

< 1mm

Highlights

MOP078

Emittance/Twiss parameters measured and controlled by QM's



Injection point to RCS
(Rapid Cycle Synchrotron)

Horizontal phase ellipse

Vertical phase ellipse

