Real-Time Betatron Tune Correction with the Precise Measurement of Magnet Current

Yoshi Kurimoto, Tetsushi Shimogawa and Daici Naito for the J-PARC accelerator groups

Magnets in Accelerator Tunnel

How to control the transverse motion

PS : Power Supplies for the magnets
Real-Time Betatron Tune Correction with the Precise Measurement of Magnet Current

Yoshi Kurimoto, Tetsushi Shimogawa and Daici Naito for the J-PARC accelerator groups

Magnets in Accelerator Tunnel

- Sextupole
- Quadrupole
- Dipole

How to control the transverse motion

- Real-time betatron tune prediction based on the magnet current
- Number of horizontal oscillations in 1 turn = betatron tune

PS : Power Supplies for the magnets