# 1st strategy discussion: issue of magnet quality

(1) Magnet swaps (~ 4-6) → benefit threshold ?

(2) Rotate sextupoles based on magnetic measurements → safe ?

(3) Tune installed skew sextupole → reliable ? (Cf. Glen's talk)

(4) Increase beta* for more tolerance to uncertainty

➔ re-evaluate above with more complete knowledge of
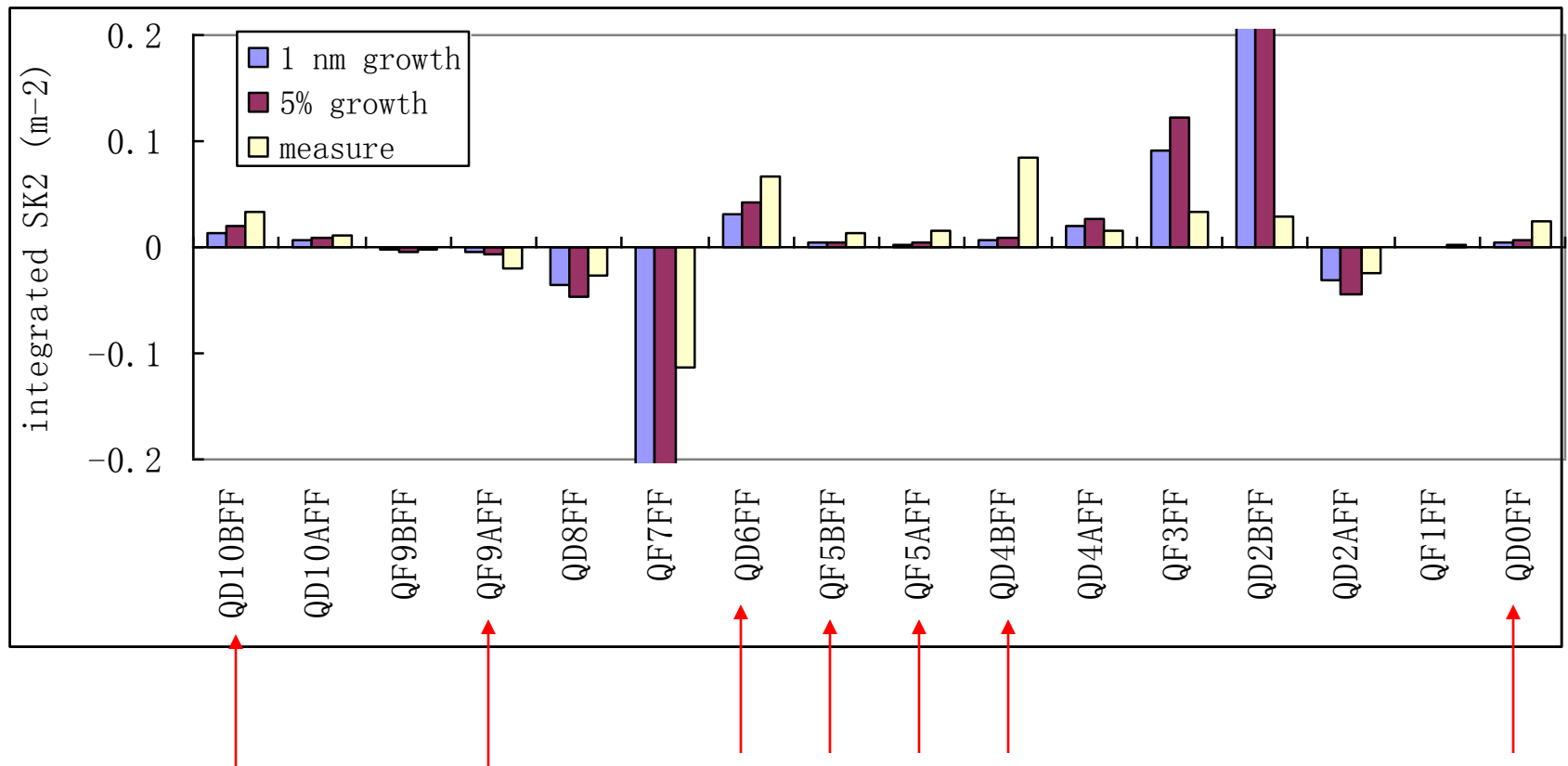multipoles now available (e.g. angle reference)

betaX* optimization
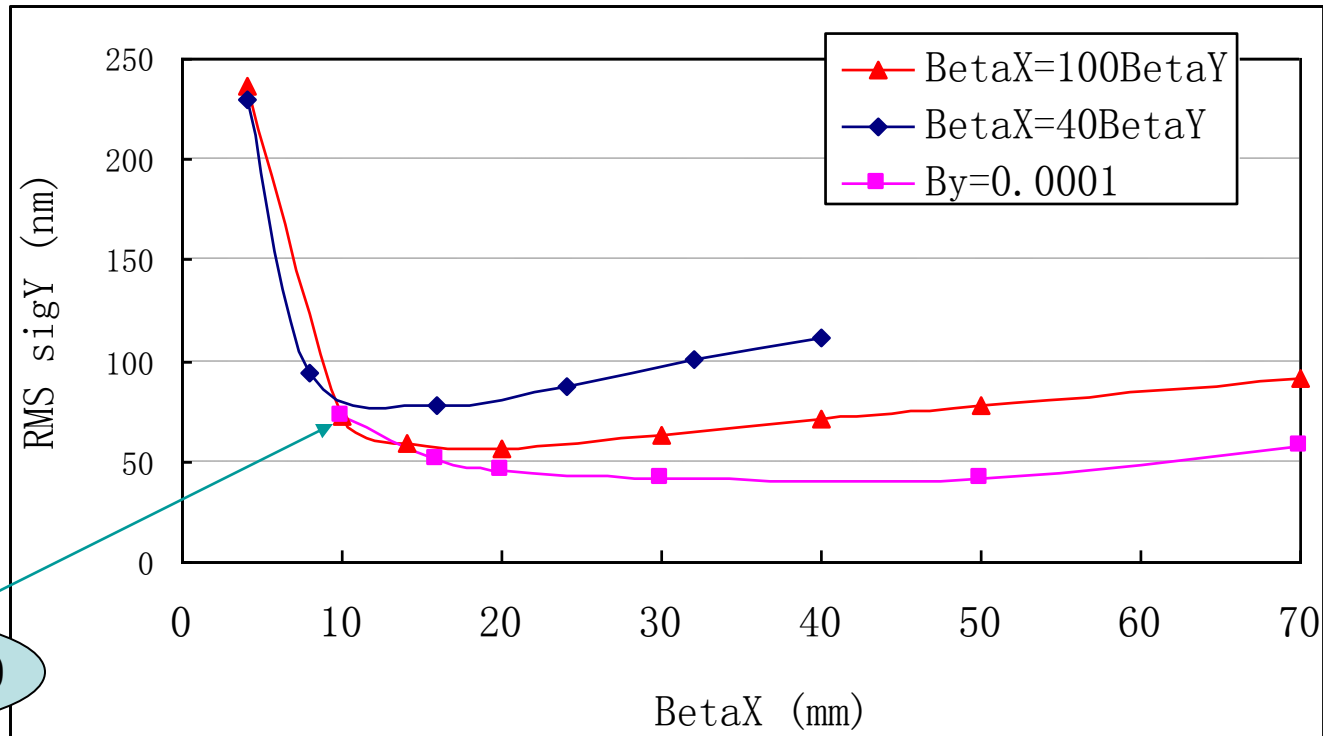
• When betaX*>1 cm, the effect of multpoles become weaker.

• A new lattice has be designed using MADX and MAPCLASS, namely BX2.5BY1.0.

Comparison of skew sextupole measurements and sensitivities for FFS quadrupoles

This suggest how the swapping should be made.

skew sextupole tolerance compared to the measurement for the quadrupoles

Best quadrupoles: QM15FF, QD10X, QF11X, QF17X, QD18X

Worst quadrupoles:QD4BFF, QD0FF, QF5AFF, QF9AFF, QF5BFF