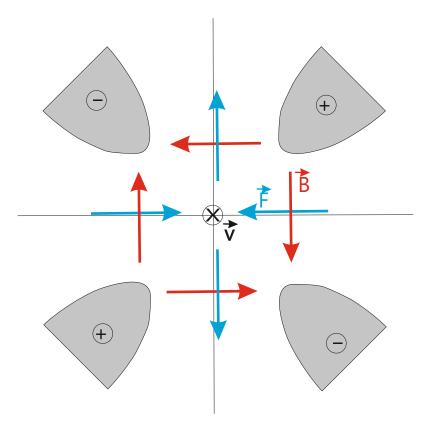
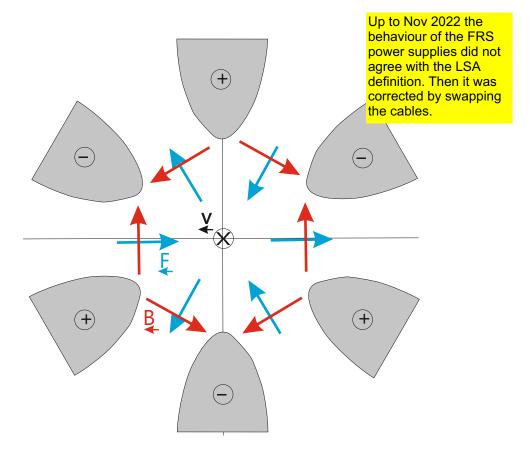
## Quadrupole is positive in LSA



(A|X)=R21 < 0 (focusing for q>0 particles), B >0 in GICOSY, k1 >0 in MAD-X, in MIRKO it is red and K is negative

## Hexapole is positive in LSA



(A|XX)=T211 < 0 (for q>0 particles), B>0 in GICOSY, k2 > 0 in MAD-X

To be used for conversion from GICOSY-> LSAset file (parammodi)

$$K'L = B_0/G_0 L_{eff} / B\rho$$

$$K''L = 2 B_0/G_0^2 * L_{eff} / B_P$$

Polarity of sextupole magnets was tested with Hall probe on TS4KS1 andTS4KS2, by Yoshiki and Erika 22.03.2021 before swapping the cables, also confirmed by beam.