Horizontal magnet problem

 Getting vertical B field requires samedirection current windings (nearby)



By proportional to x/(a^2+x^2)

Stephen Brooks / <u>stephen.brooks@stfc.ac.uk</u> ISIS MW upgrades meeting, RAL, May 2009

Horizontal magnet variation

 Getting horizontal B field requires opposite current windings and is easier



Bx proportional to a/(a^2+x^2)

Stephen Brooks / <u>stephen.brooks@stfc.ac.uk</u> ISIS MW upgrades meeting, RAL, May 2009

Vertical magnet

- But now the field is in the wrong direction!
- That's OK, rotate the magnet
- The dipole field is there
- But what sort of focussing does this magnet give?

