Beam deflection:

Beam $\gamma = 2$ $\beta = .87$

$$R = \frac{mv}{qB} = \frac{5.5m}{B}$$

$B = 0.02$ $R = 275m$

If magnet is 0.5m long

$$\theta = \frac{0.5}{275} = 2 \text{ mrad}$$

A. Two bump system, magnets separated by 1m gives 2mm step in trajectory.

B. 10% difference gives 0.2mrad correction for correctors.