

No info on angle (so don't care about $x^{\prime}$ ), just address $x$

For two currents (1) and (2) in quad minimize and measure position.

$$
\Delta x=x_{2}-x_{1}=\left[\left(1-d / f_{1}\right) \cdot x_{0}+d \cdot x_{0}^{\prime}\right]-\left[\left(1-d / f_{2}\right) \cdot x_{0}+d \cdot x_{0}^{\prime}\right]=\left(1 / f_{2}-1 / f_{1}\right) \cdot d \cdot x_{0}
$$

PEPPo example with MQJOLO2 and IPMOLO2
MQJ quad makes 594 G @ 10A at a radius of ( 1 cm or 1.835 cm ) and is 15 cm long This leads either to a strength of 0.486 T or 0.891 T , respectively (still to find out)


MQJOLO2 and IPMOLO2 are 267 mm apart

Assuming 0.486 T value then $\Delta x=70$ micron
Assuming $0.891 T$ value then $\Delta x=38$ micron

