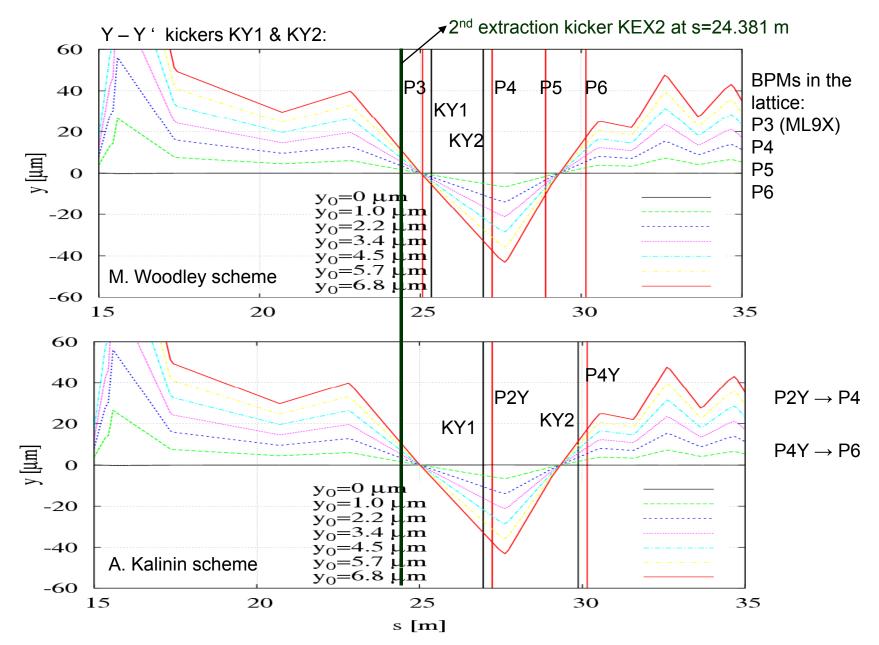
Update on ATF2 simulation Kicker response

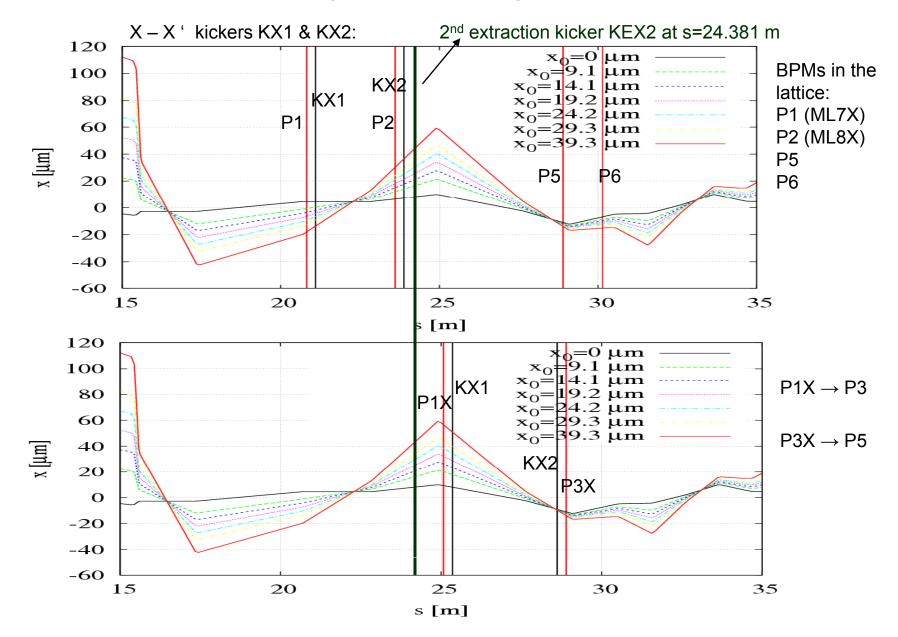
Javier Resta Lopez

FONT meeting November 30, 2007

Initial jitter propagation

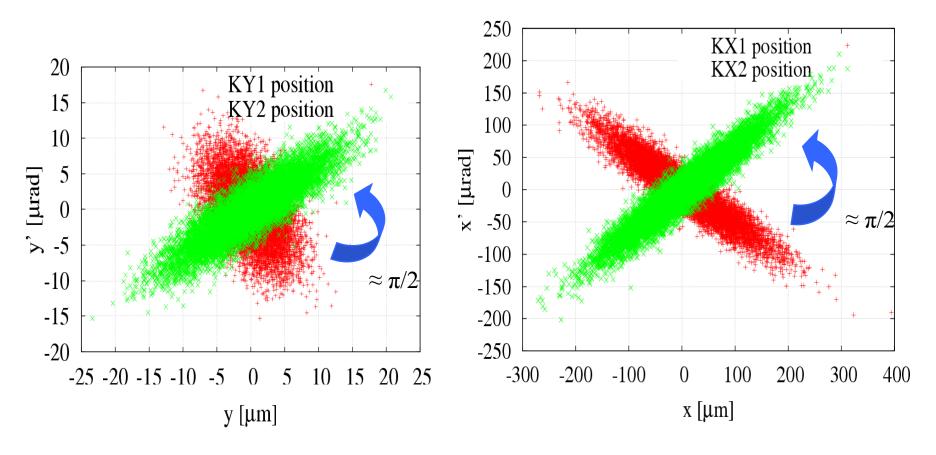


Initial jitter propagation



Phase advance between kickers

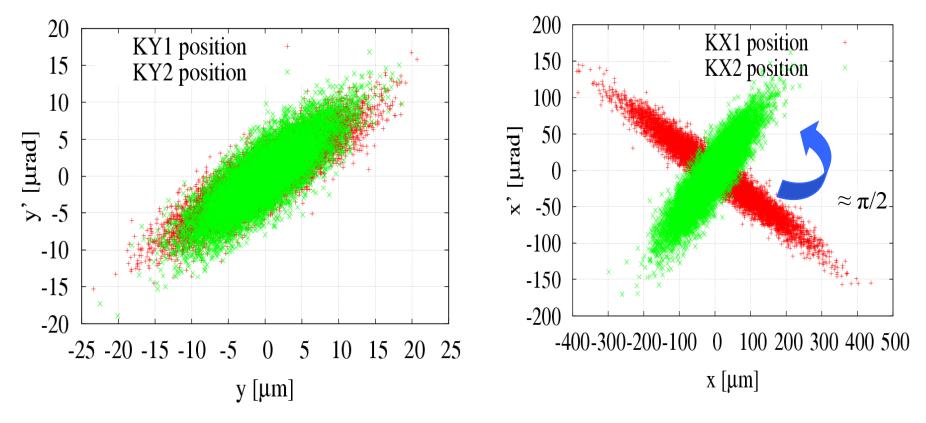
(M. Woodley scheme)



Phase advance between kicker pairs of $\approx \pi/2$

Phase advance between kickers

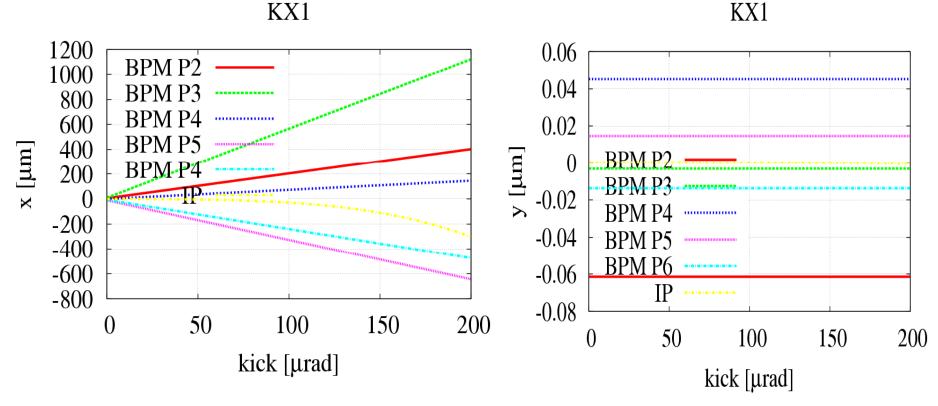
(A. Kalinin scheme)



Phase advance between kicker pair KY1 & KY2 approximately of $\approx \pi$

Phase advance between kicker pair KX1 & KX2 of $\approx \pi/2$

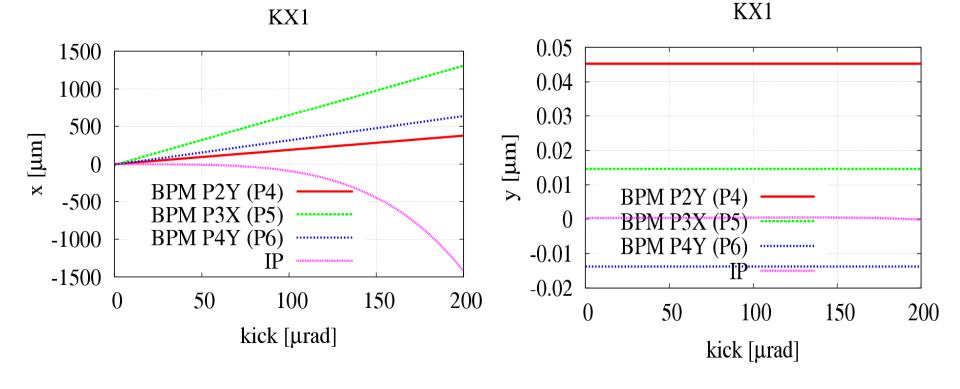
(M. Woodley scheme)





No effect on the vertical amplitude \rightarrow No x-y coupling

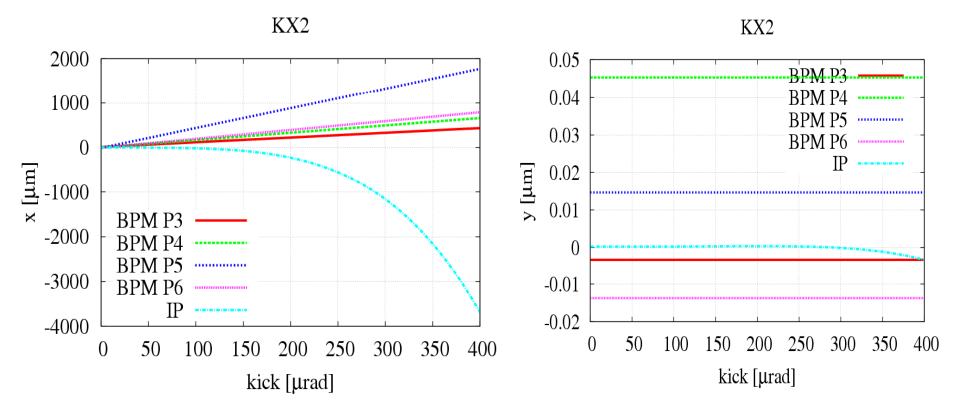
(A. Kalinin scheme)



KX1 kick > 100 urad \rightarrow Nonlinear response at IP

No effect on the vertical amplitude \rightarrow No x-y coupling

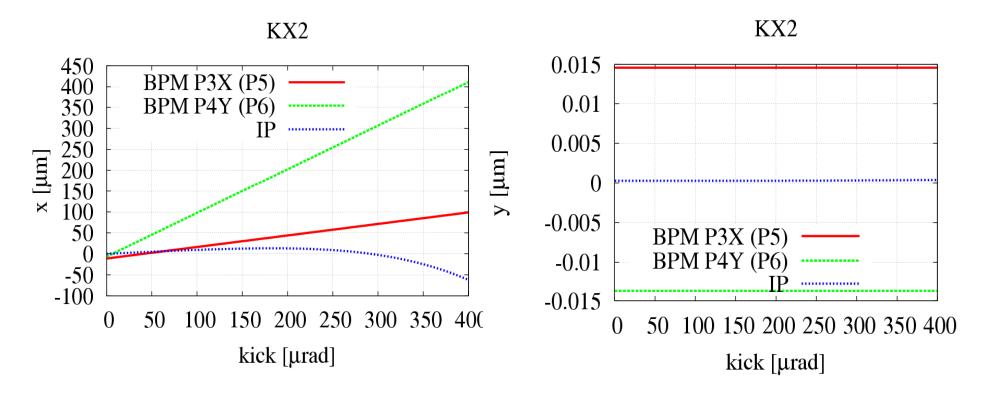
(M. Woodley scheme)



KX2 kick > 150 urad \rightarrow Nonlinear response at IP

KX2 kick > 350 urad \rightarrow x-y coupling at the IP

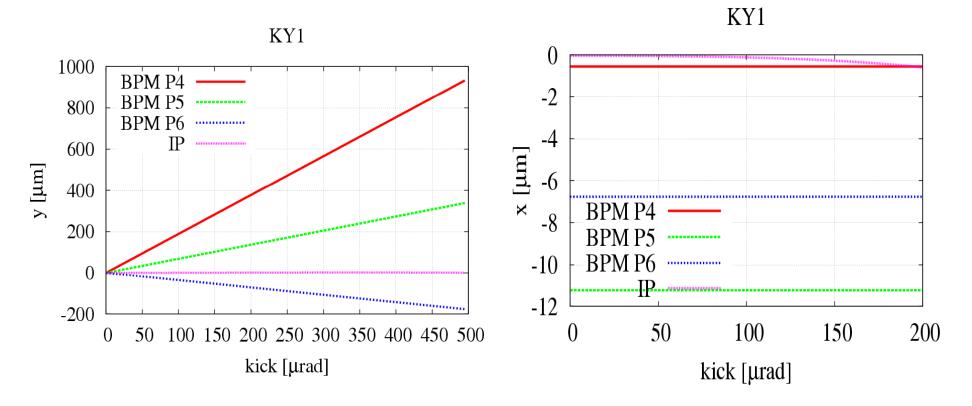
(A. Kalinin scheme)





No effect on the vertical amplitude \rightarrow No x-y coupling

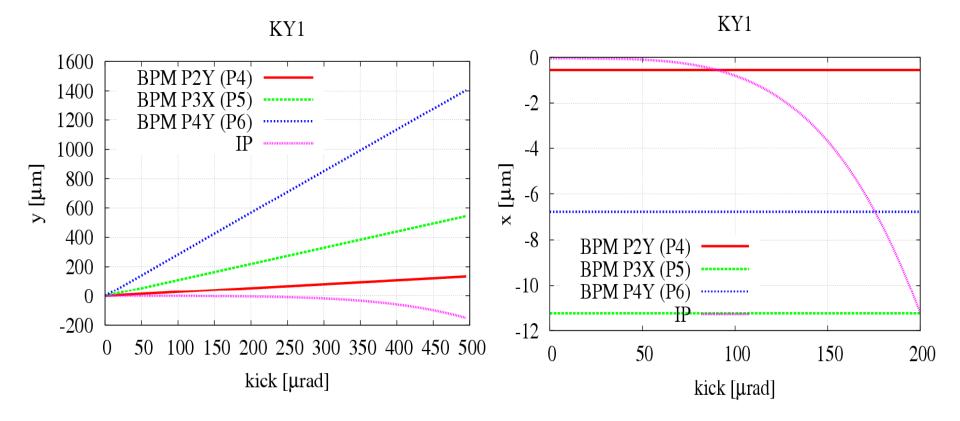
(M. Woodley scheme)



Linear response in a very wide range of kicker strengths

KY1 kick > 100 urad \rightarrow x-y coupling at the IP

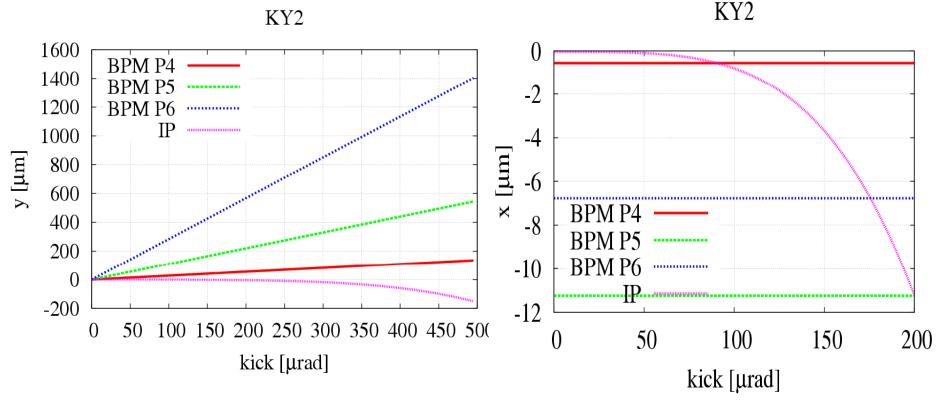
(A. Kalinin scheme)



KY1 kick > 300 urad \rightarrow Nonlinear response at IP

KY1 kick > 50 urad \rightarrow x-y coupling at the IP

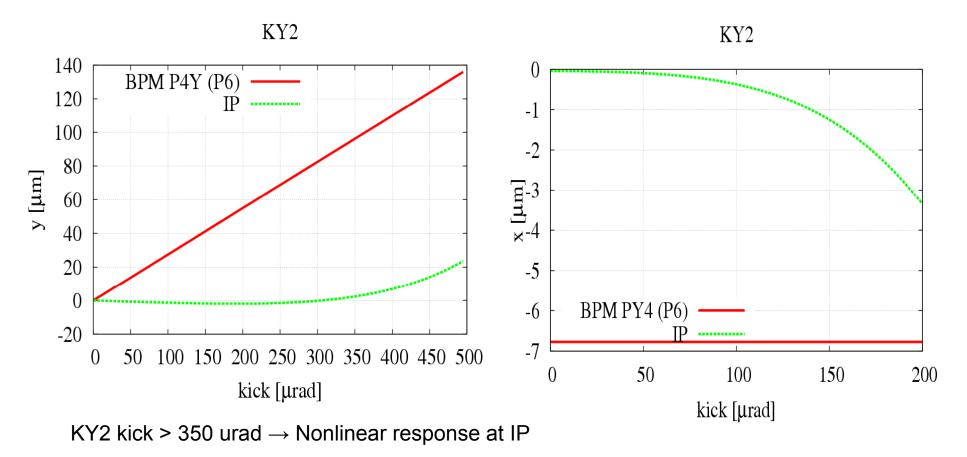
(M. Woodley scheme)



KY2 kick > 300 urad \rightarrow Nonlinear response at IP

KY2 kick > 50 urad \rightarrow x-y coupling at the IP

(A. Kalinin scheme)



KY2 kick > 50 urad \rightarrow x-y coupling at the IP