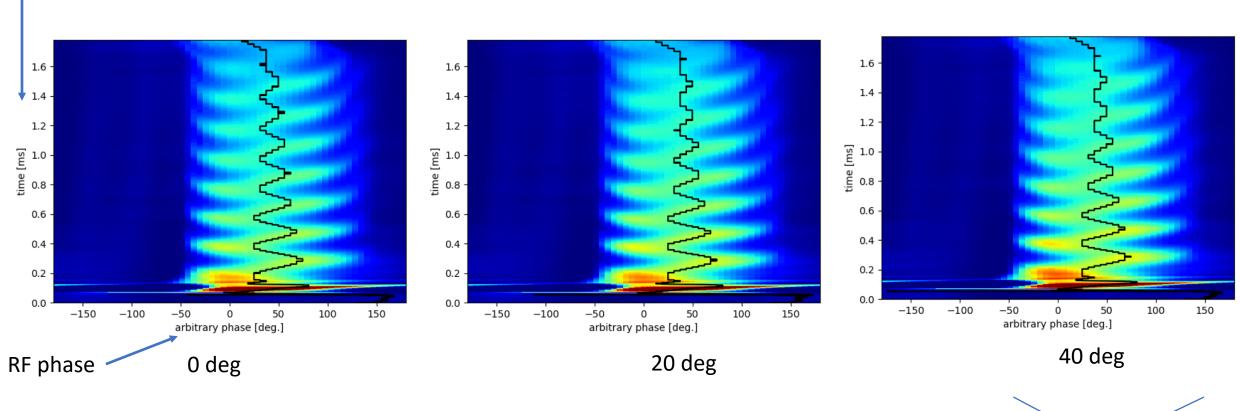
Bunch monitor data analysis

D. Kelliher, 30/5/2019

Data from 27/3/2019, first 3000 turns

Time is with respect to scope trigger.

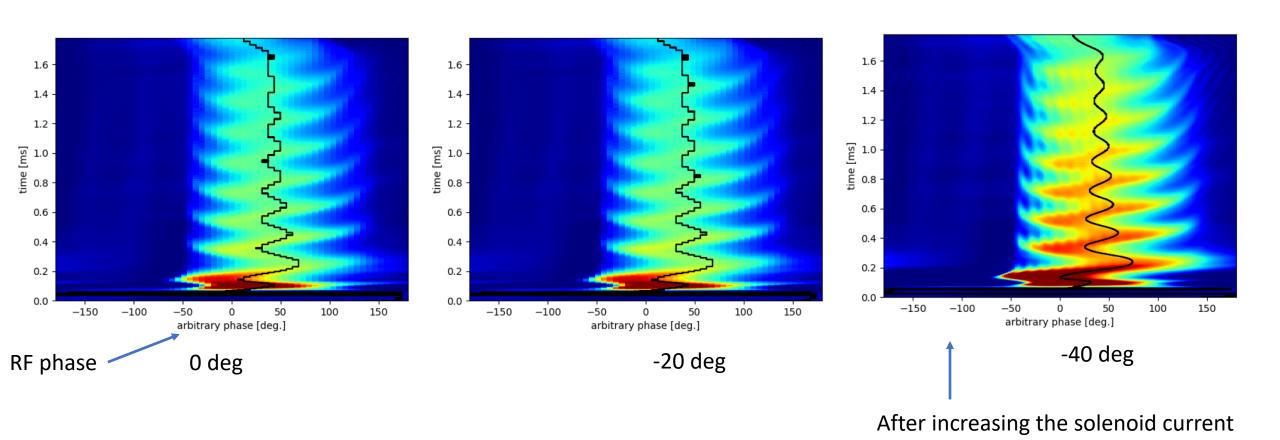


Black line shows the "symmetry point", i.e. minimize

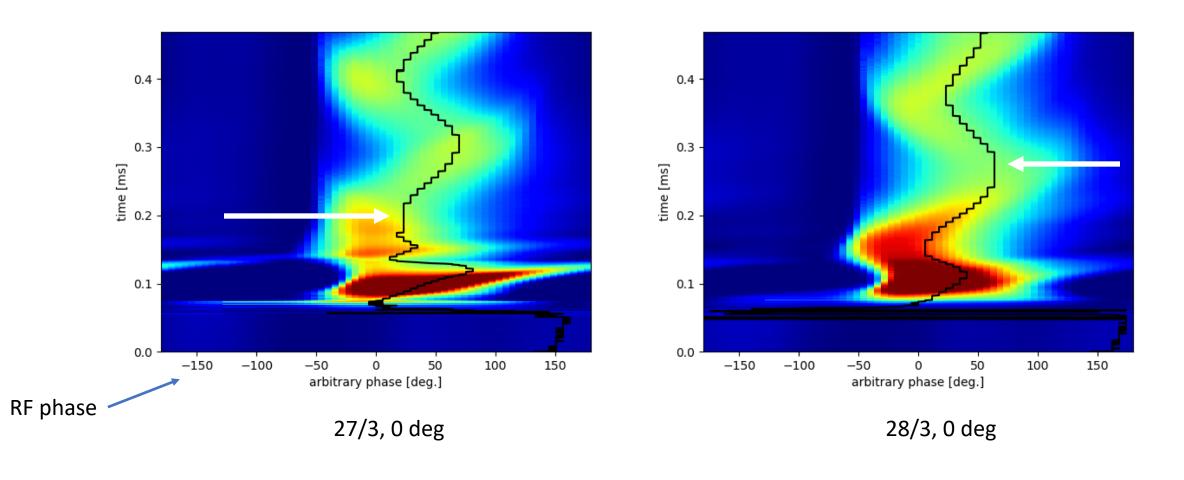
$$\Delta = \left| \sum_{\phi_1 - \pi}^{\phi_1} f(\phi) - \sum_{\phi_1}^{\phi_1 + \pi} f(\phi) \right|.$$



Data from 28/3/2019, first 3000 turns



First 750 turns



Apply phase jump at exteme in oscillation before decoherence sets in.