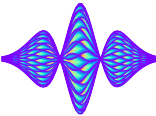
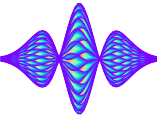
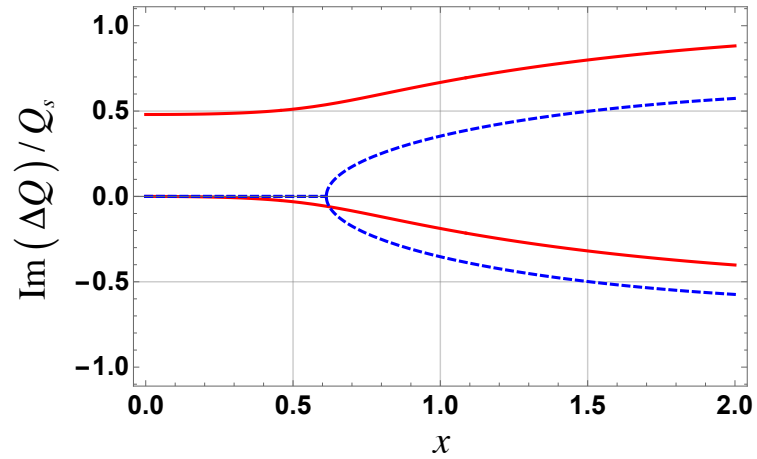
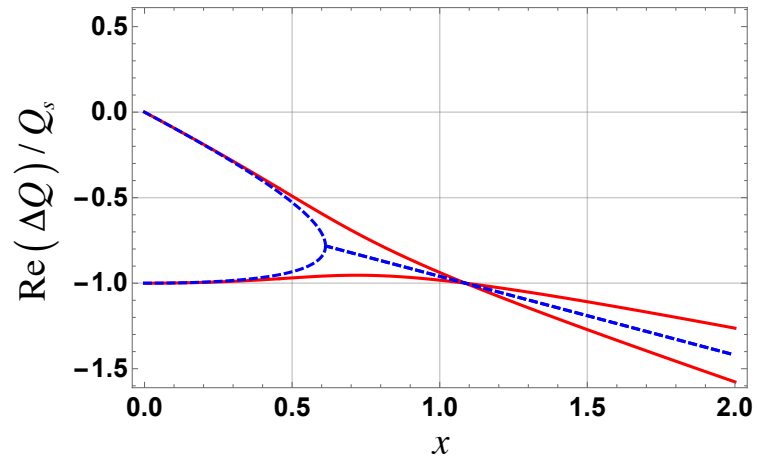


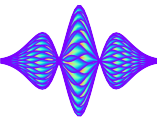
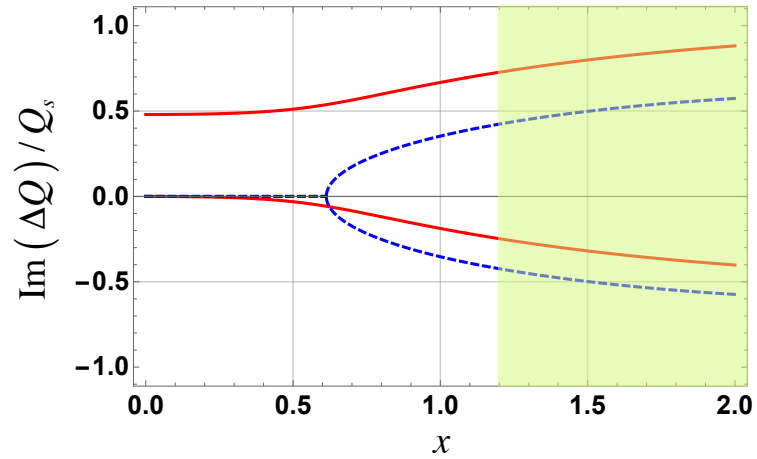
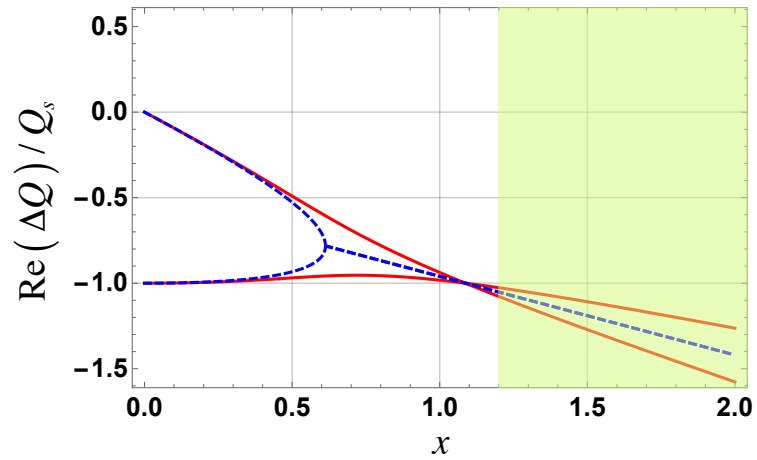
Landau damping for TMCI: without vs. with Transverse Damper (TD)

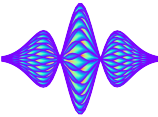
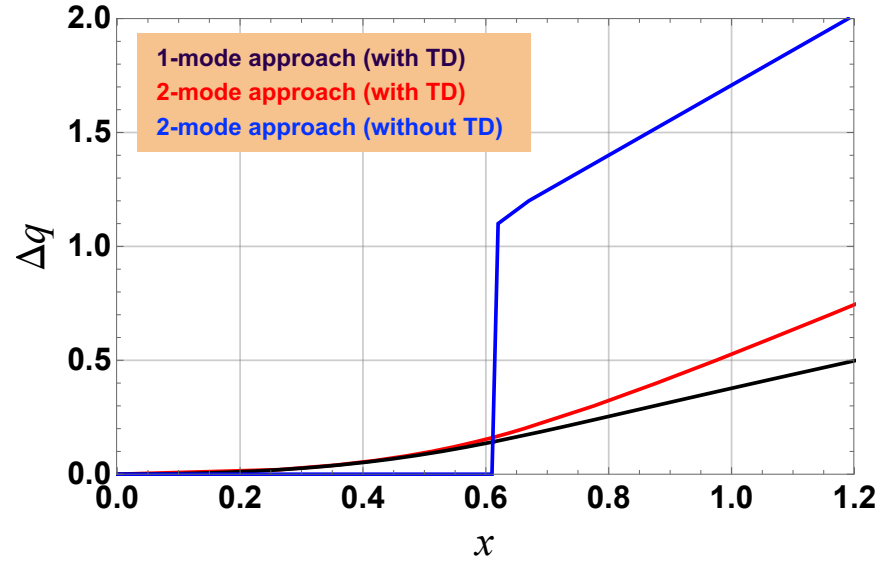
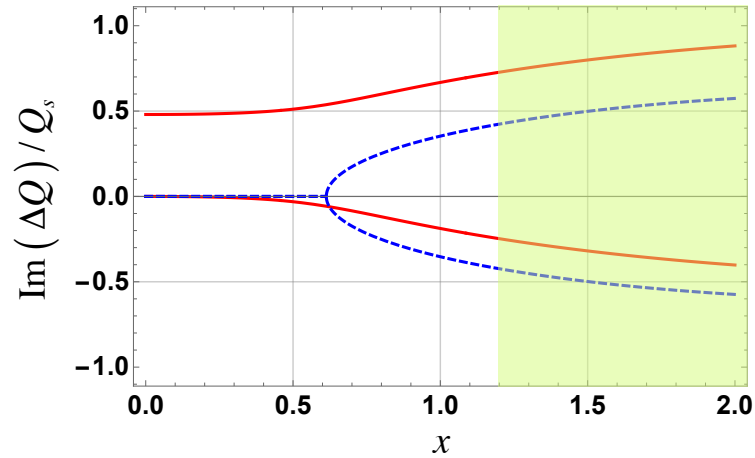
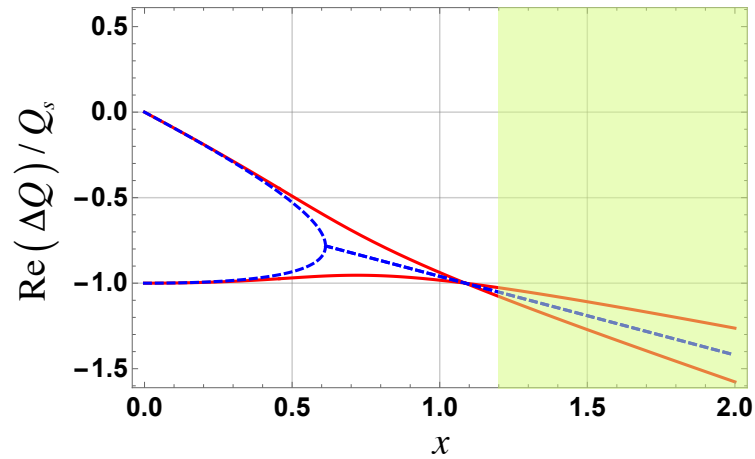
E. Métral

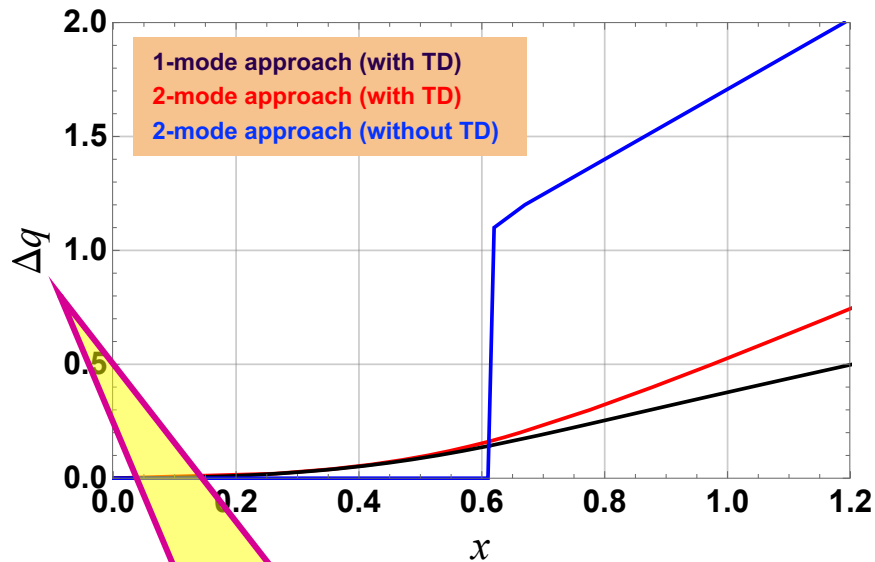
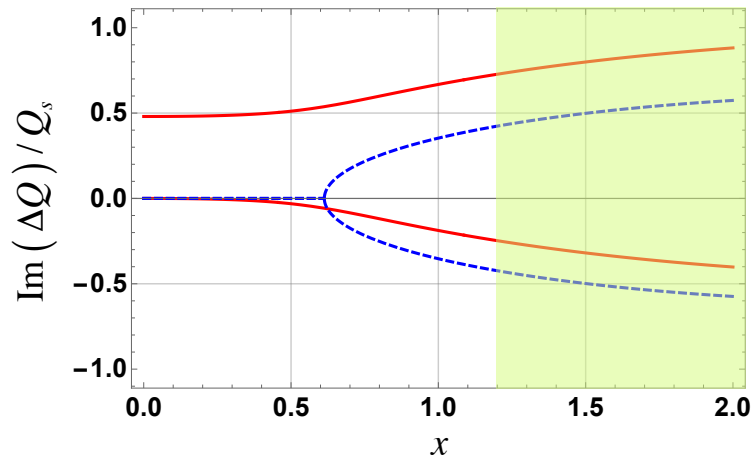
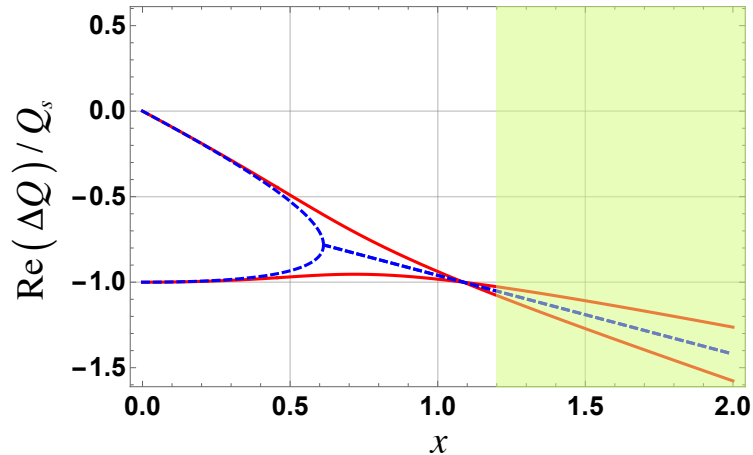
=> Using the same example as the one of the IPAC18 paper
(<http://accelconf.web.cern.ch/AccelConf/ipac2018/papers/thpaf048.pdf>)



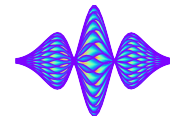




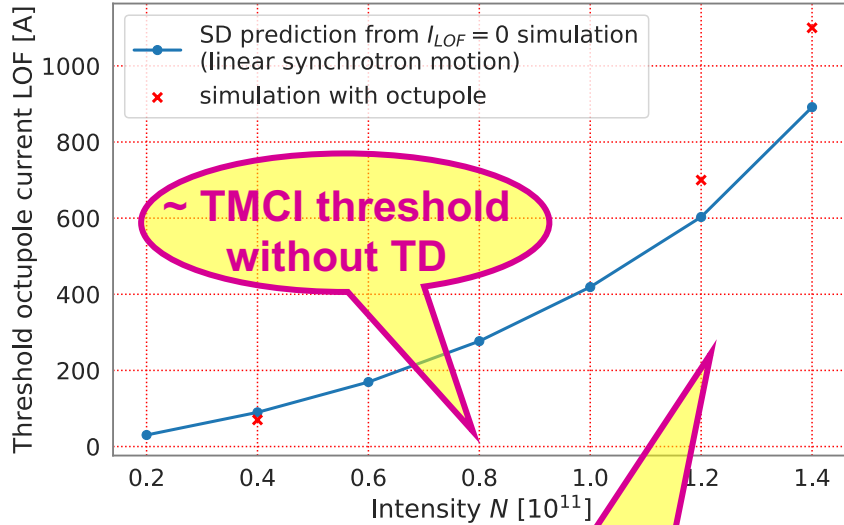




Required tune spread (normalised by Q_s) to reach bunch stability

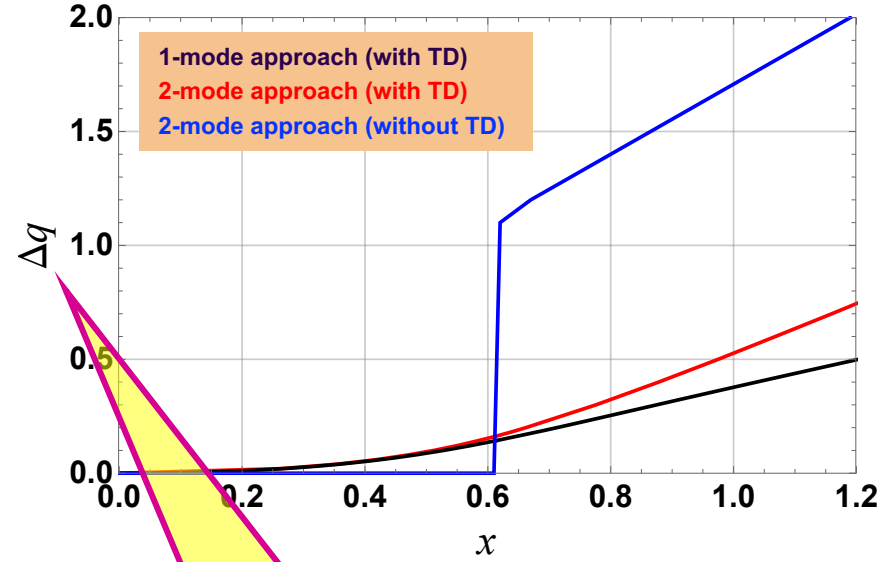


Stability threshold for $I_{LOF} < 0$ for PyHEADTAIL (x-plane)



~ TMCI threshold without TD

Picture from A. Oeftiger sent just after the meeting (follow-up of last meeting)



Required tune spread (normalised by Q_s) to reach bunch stability

