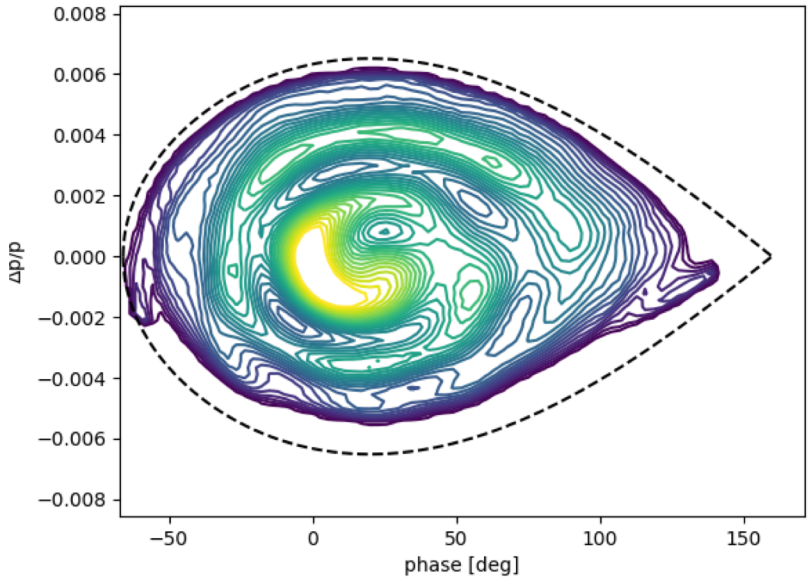
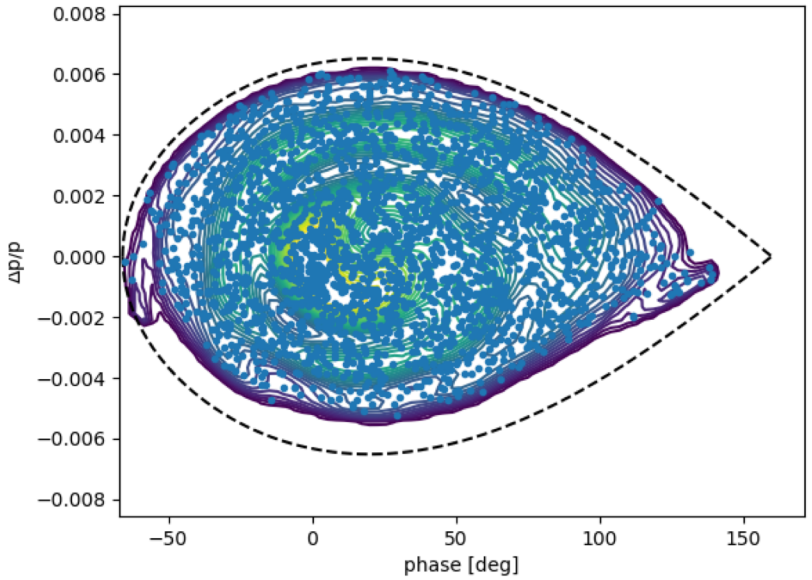
Adiabaticity experiment update

D. Kelliher, 15/10/2020

Sampling the tomography distribution



Tomography result f(ϕ,δ)

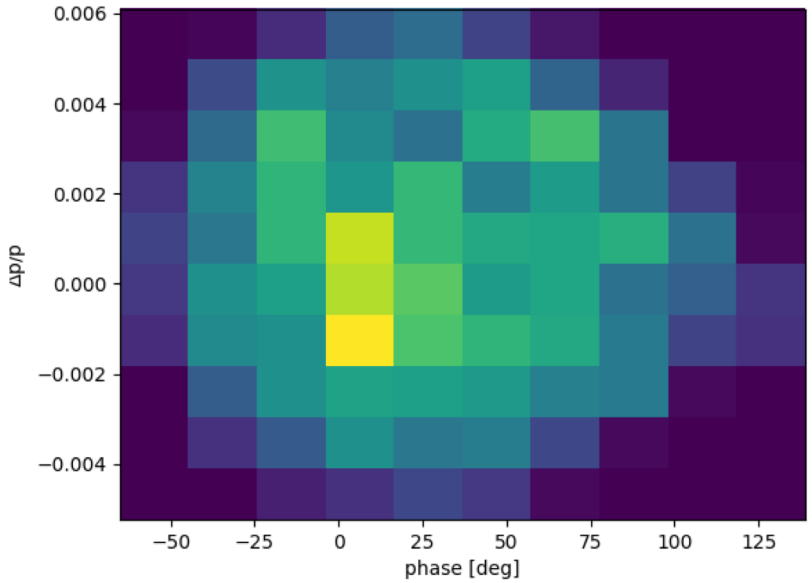


Sample (ϕ,δ) distribution from f(ϕ,δ).

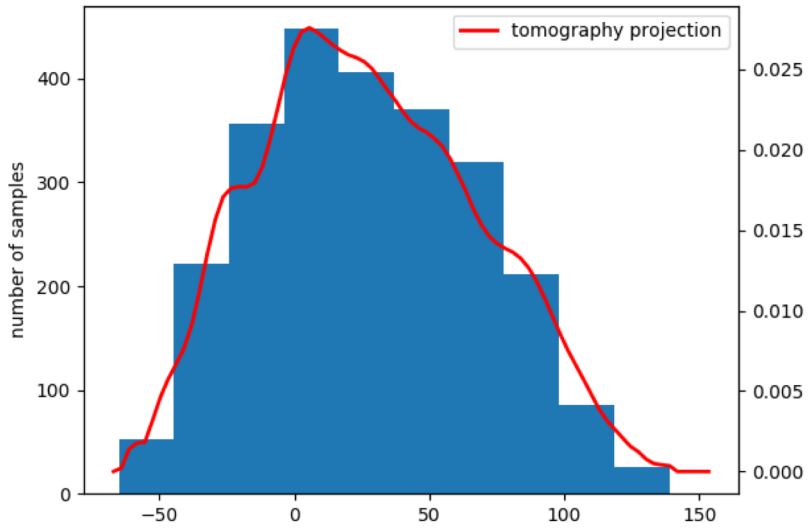
- Create a distribution based on the tomography result.
- Use python version of Matlab “pinky” module – allows an arbitrary 2d probability distribution to be sampled.

https://github.com/pgromano/pinky

Sampling the tomography distribution



2d histogram of sampled distribution.



1d histogram (phase) of sampled distribution.

Track this distribution in PyHEADTAIL and calculate emittance growth for various ramp rates.