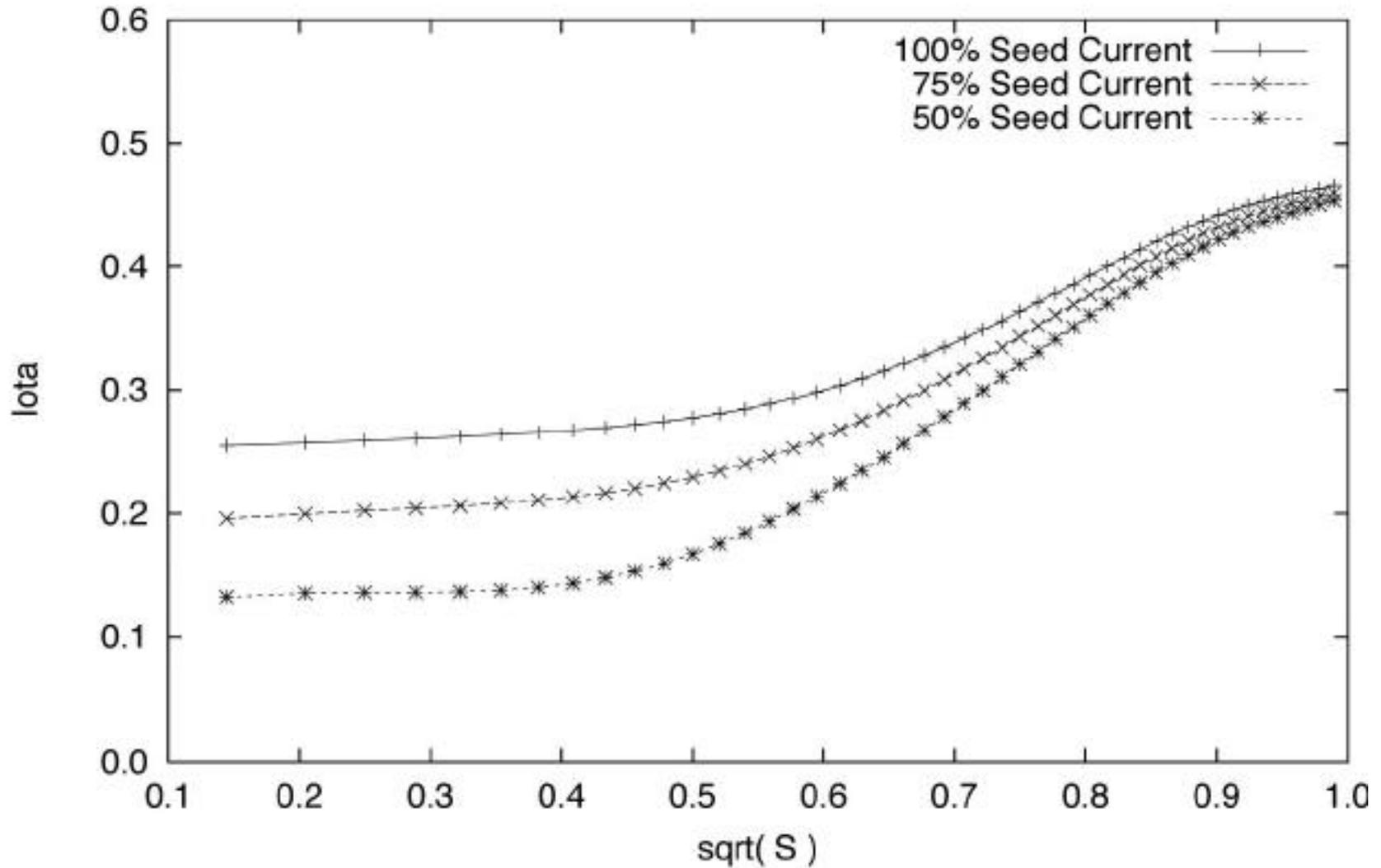
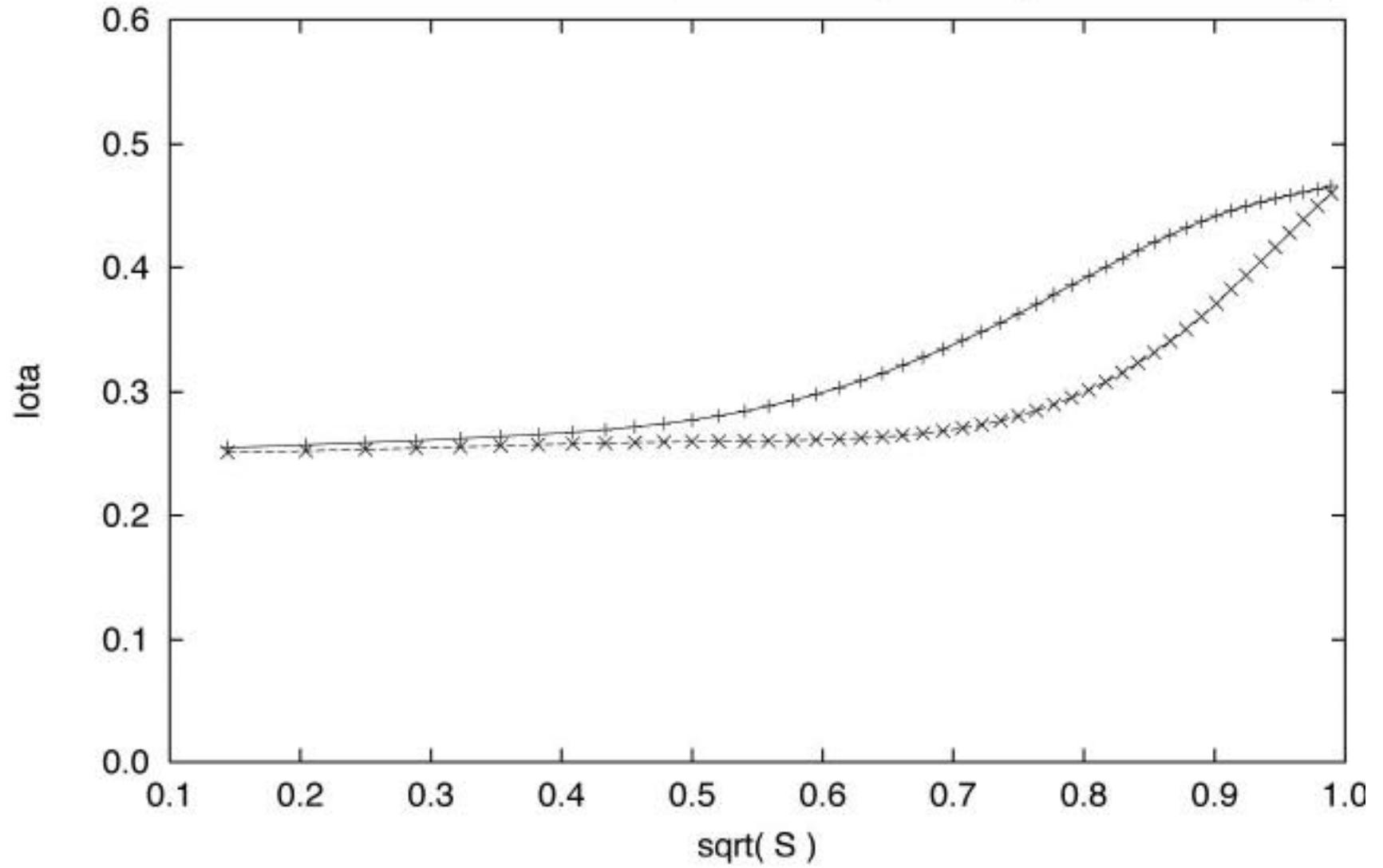


Configuration Development

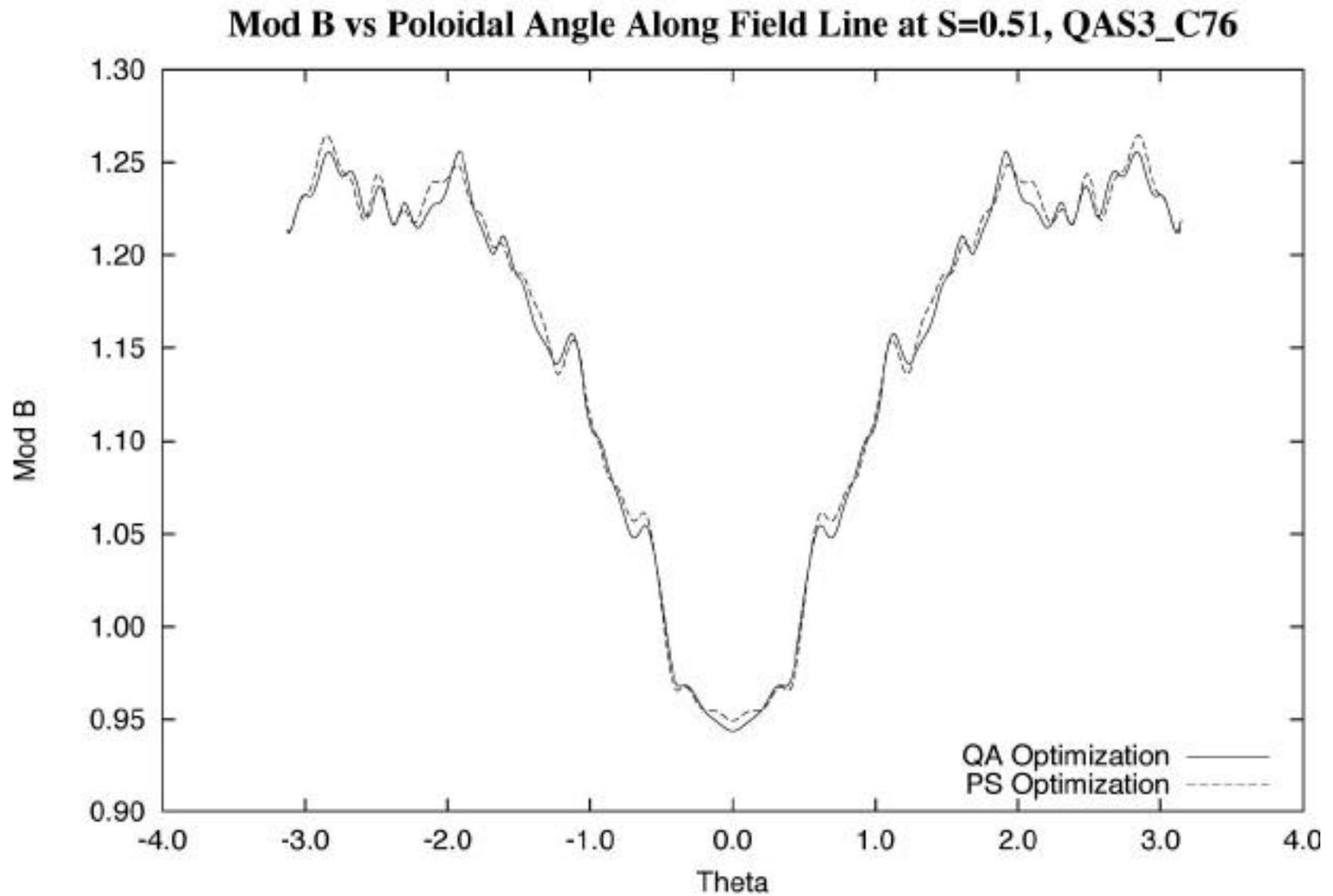
- Recently developed kink stable configurations tend to have more ripple wells as well as more deformed surfaces.
 - Poorer transport properties,
 - High coil current density.
- We have been trying to improve the situation by:
 - Finding ways to reduce the kink growth rate before stabilization.
 - Plasma current profile,
 - Iota profile control.
 - Further optimization targeting specifically the ripples.
 - Pseudo-symmetry.

- Change the amount of seed current allows us to change the overall amount of shear, thereby changing the kink growth rate.



Kink Growth Rate Dramatically Reduced by Forcing Shear To the Edge

- Applying pseudo-symmetry to c76 results in the improvement of ripples.



Mod B vs Poloidal Angle Along Field Line at S=0.51, QAS3_C76