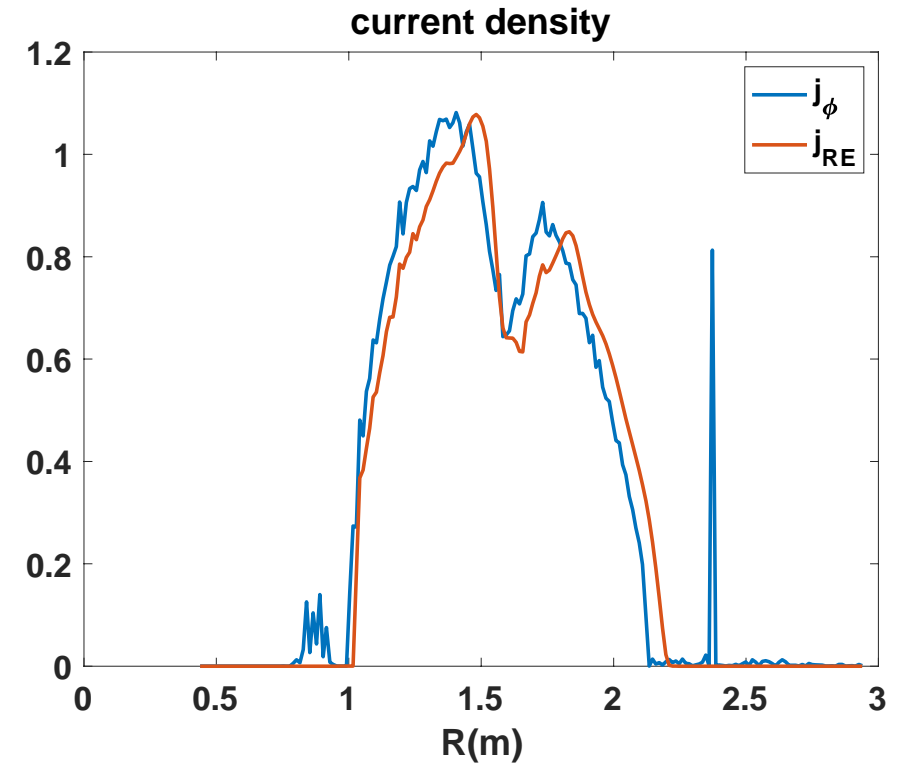
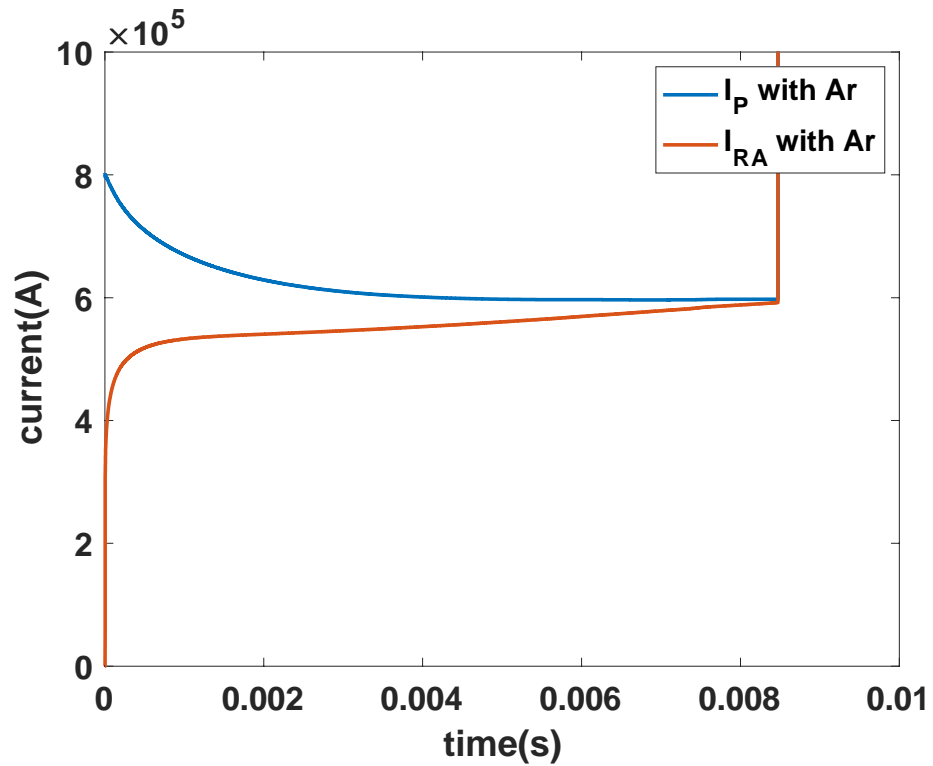


177053 case with Ar

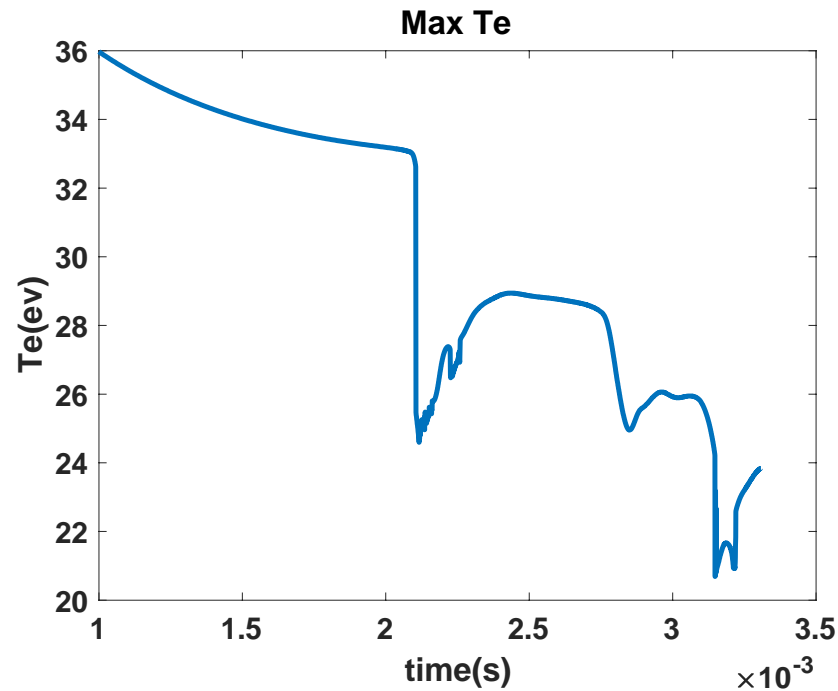
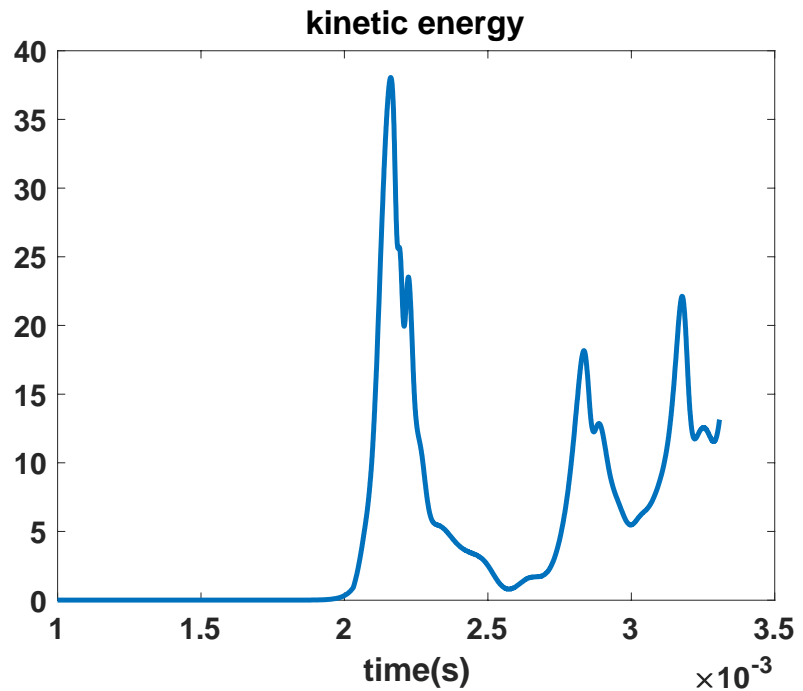
10/19/20



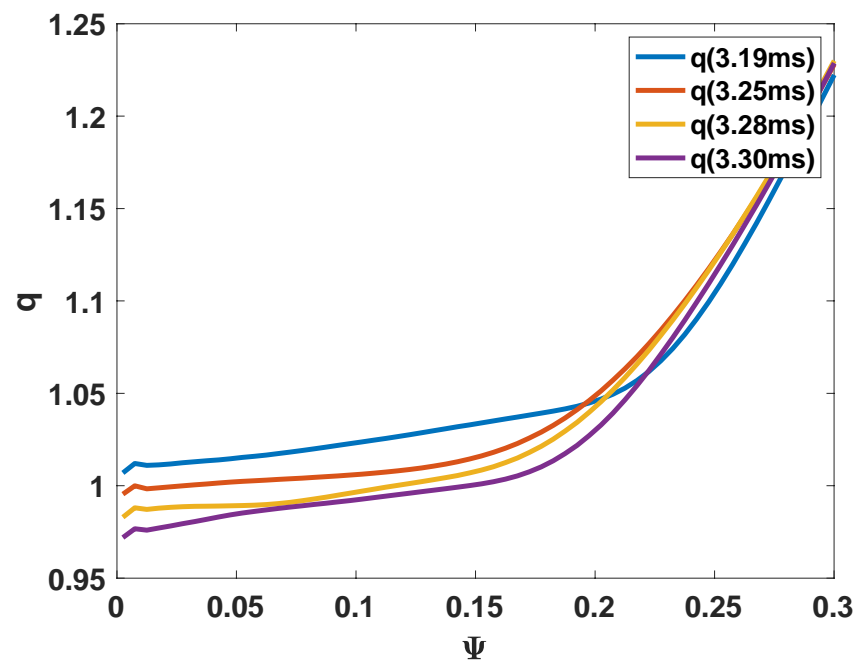
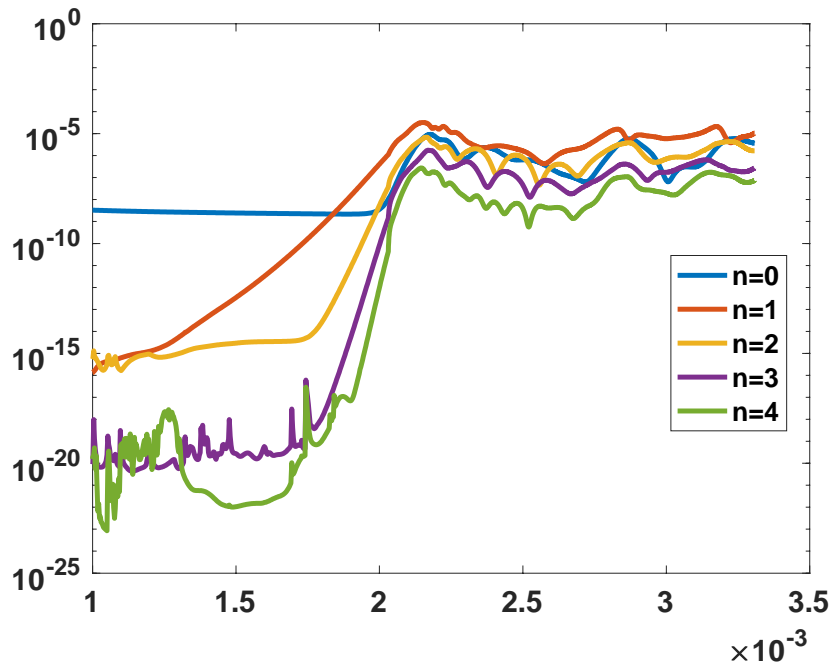
- The system crashed after the plasma current and the runaway current became equal (~9ms).
- I think the main reason is the j_ϕ and j_{RE} not exactly same every where and the end in DIII-D geometry.

Isabel sawtooth case

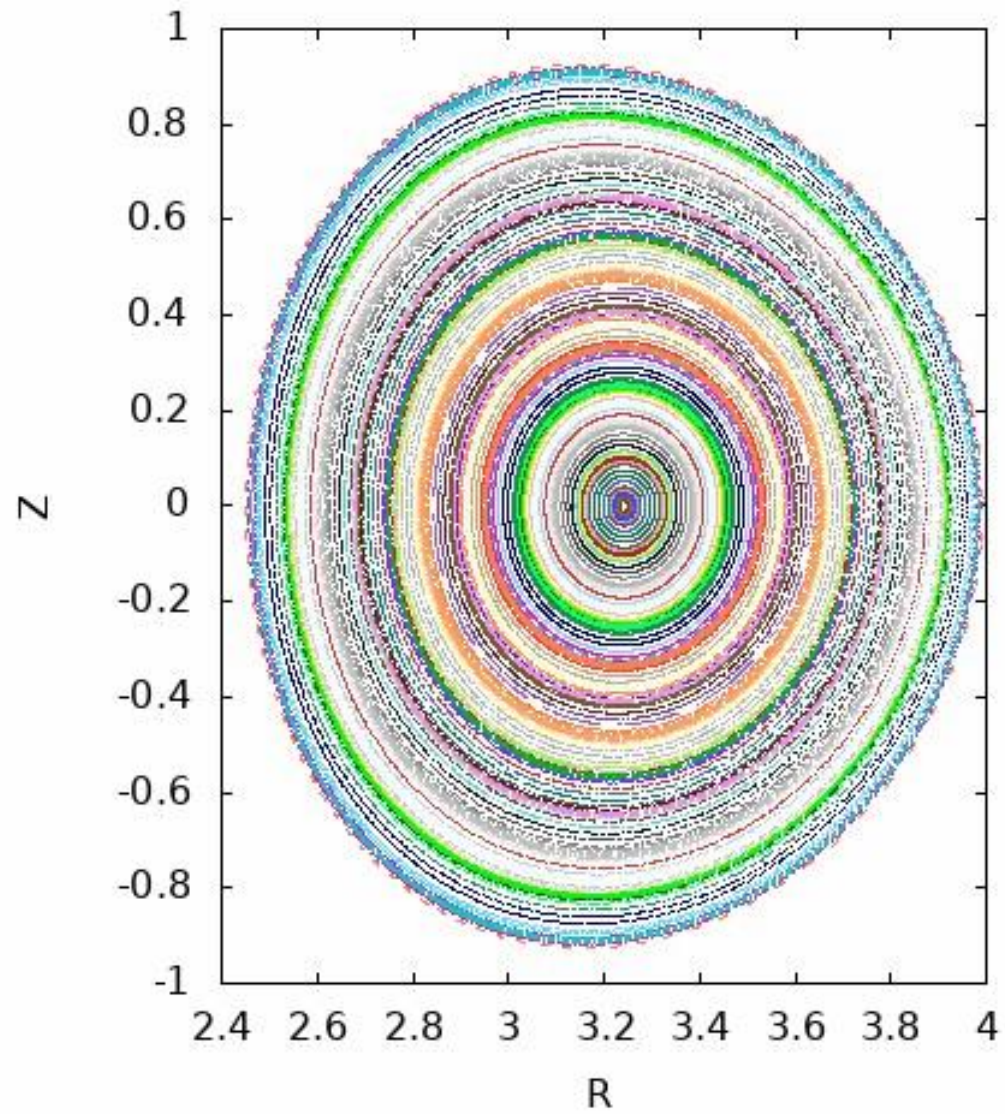
10/19/20



- The center 'q' oscillated around 1 at the last path with the max $T_e \sim 20$ ev.
- The $n=2$ and $n=0$ hmns are higher than $n=1$ hmn at $t \sim 2.7$ ms and $t \sim 3.2$ ms which are at the end of the last to sawteeth phases.



Poincare plot



I think this is similar with the sawteeth with out runaways.