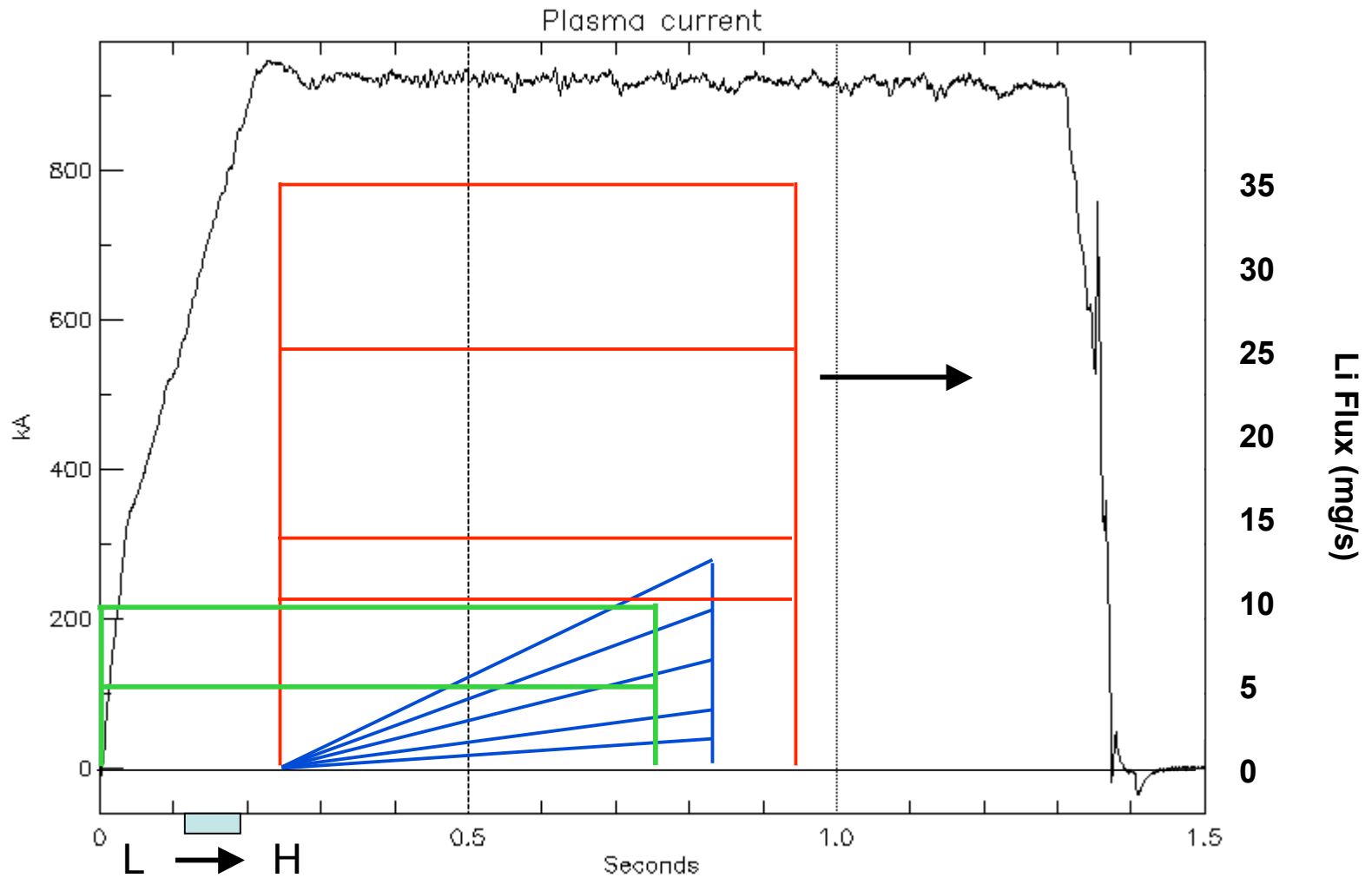


XP 828 Injection of Li Powder

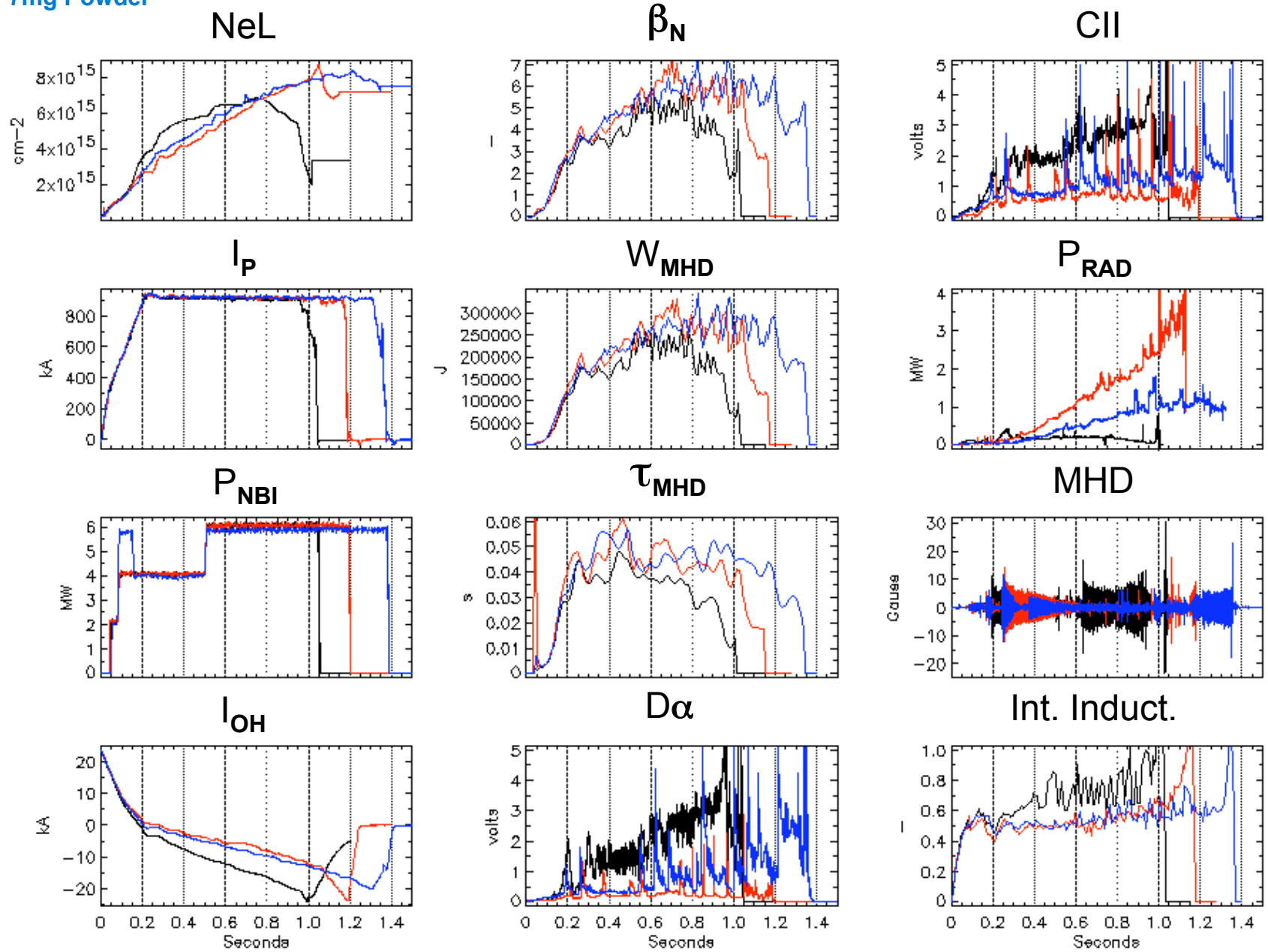


Shots:
130389



Shots:
 129012 **No Li**
 129064 **700 mg LITER**
 130389 **7mg Powder**

Comparison: LITER & Powder

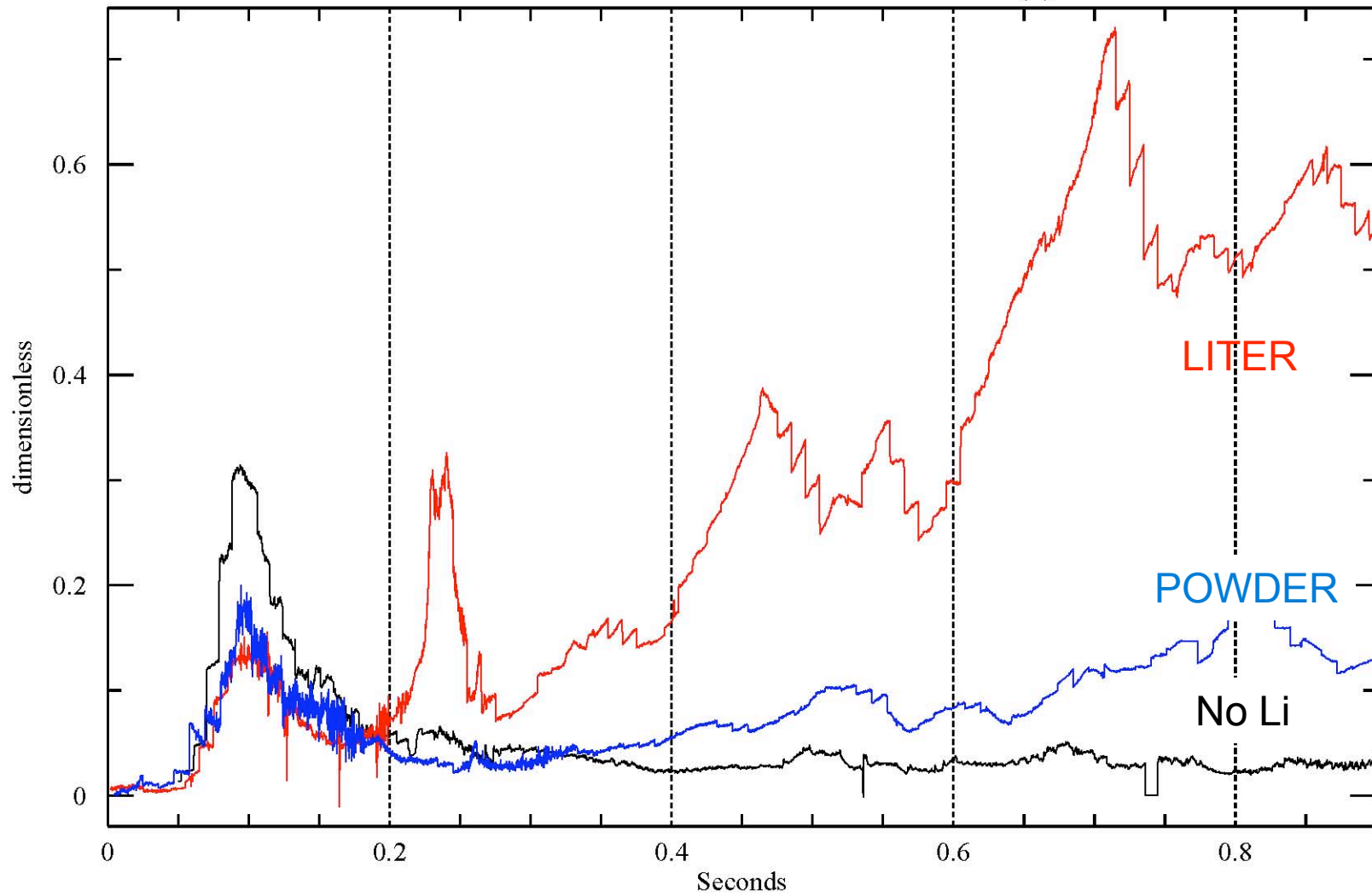


Zeff(0) from Metals



Shots:

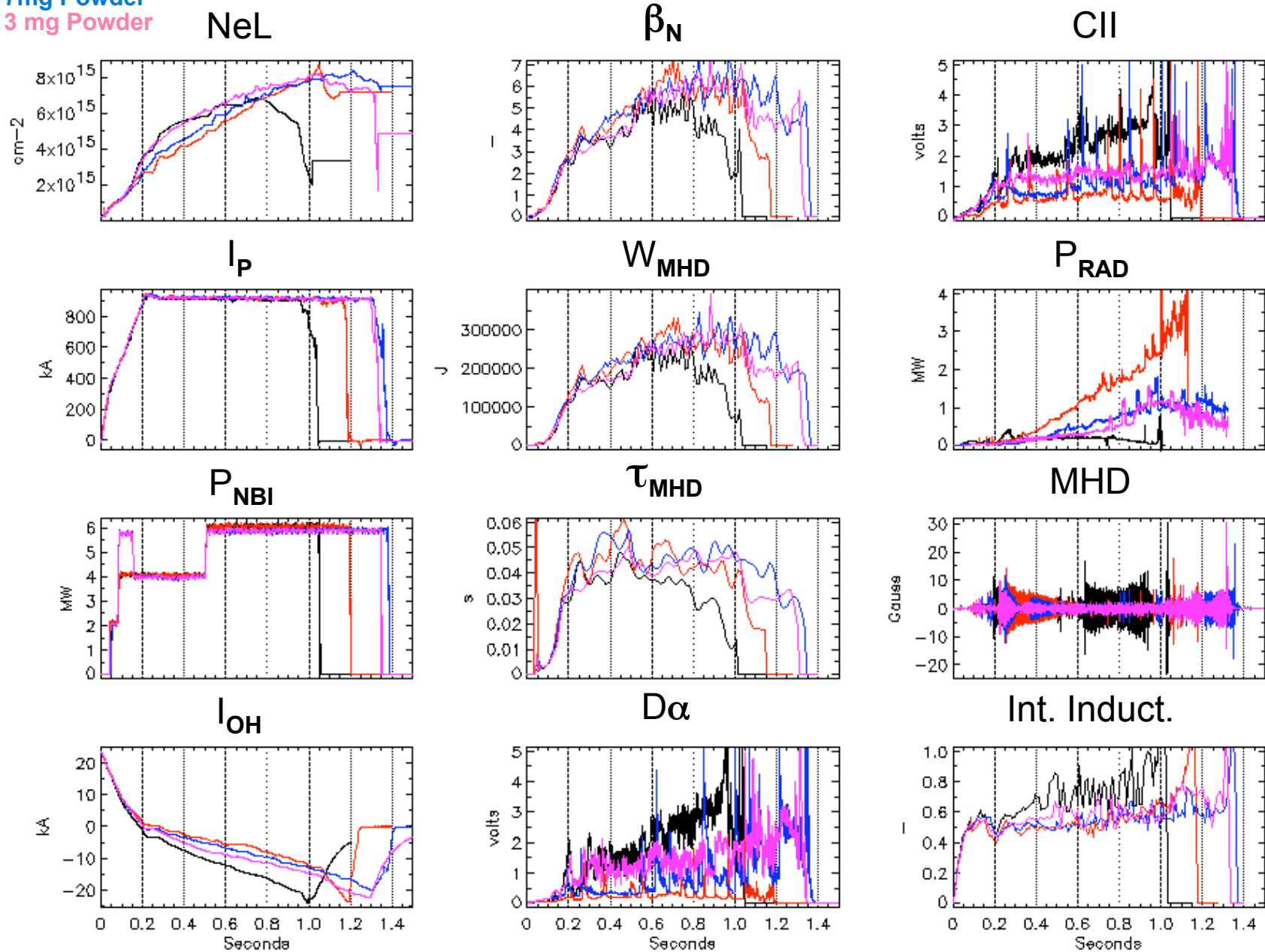
- 129012 **No Li**
- 129064 **700 mg LITER**
- 130389 **7 mg Powder**



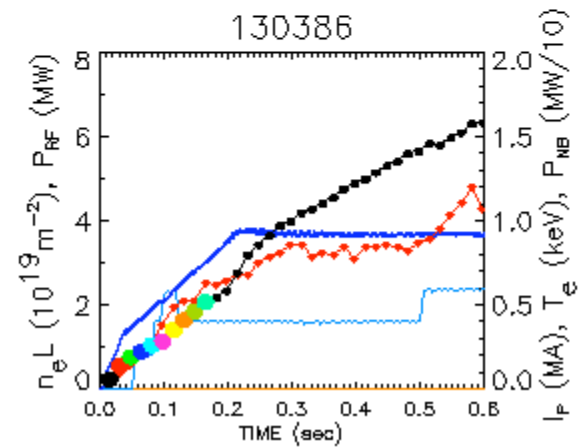
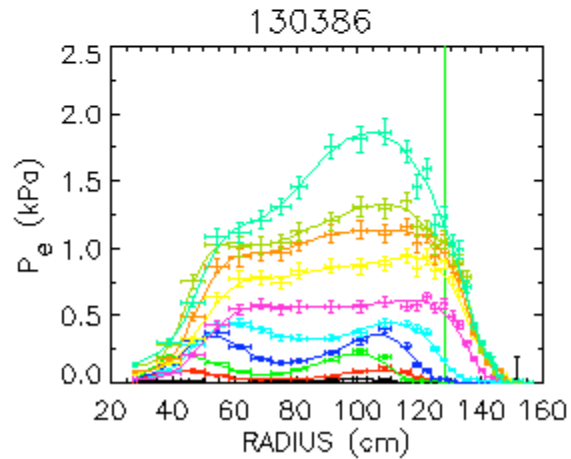
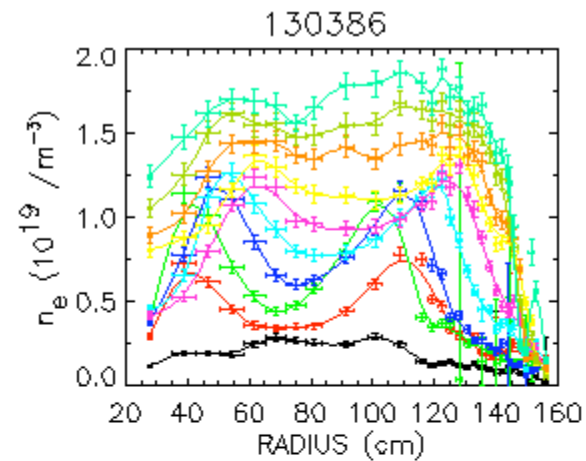
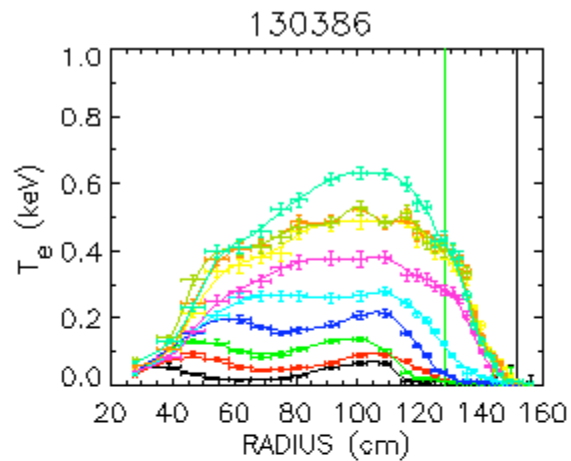
S. Paul

Shots:
 129012 **No Li**
 129064 **700 mg LITER**
 130389 **7mg Powder**
 130388 **3 mg Powder**

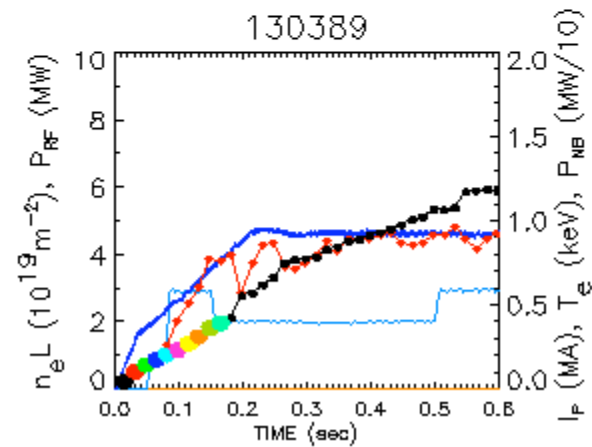
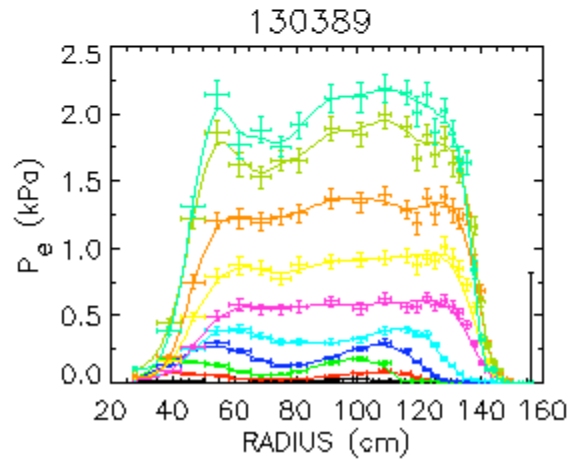
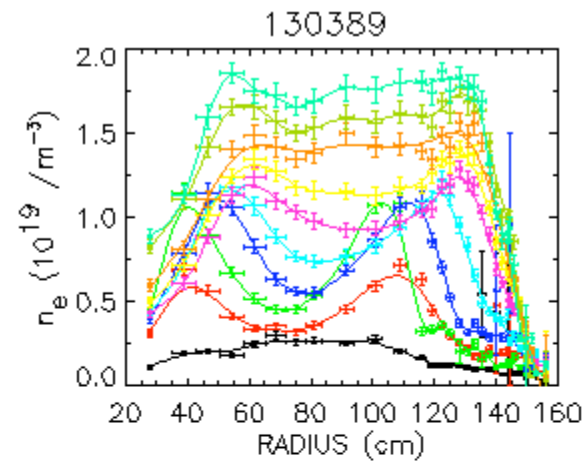
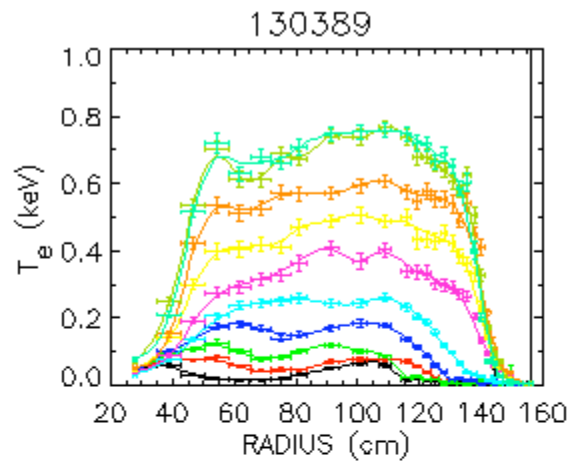
Comparison: LITER & Powder (Cont')



Early Evolution of No Li Plasma



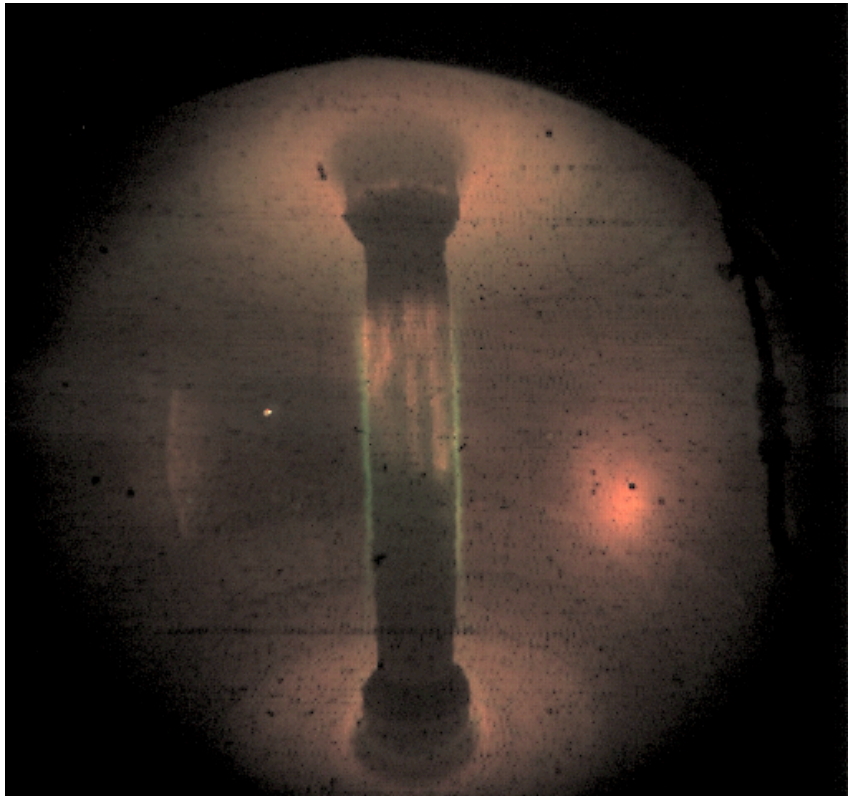
Early Evolution of "Powdered" Plasma



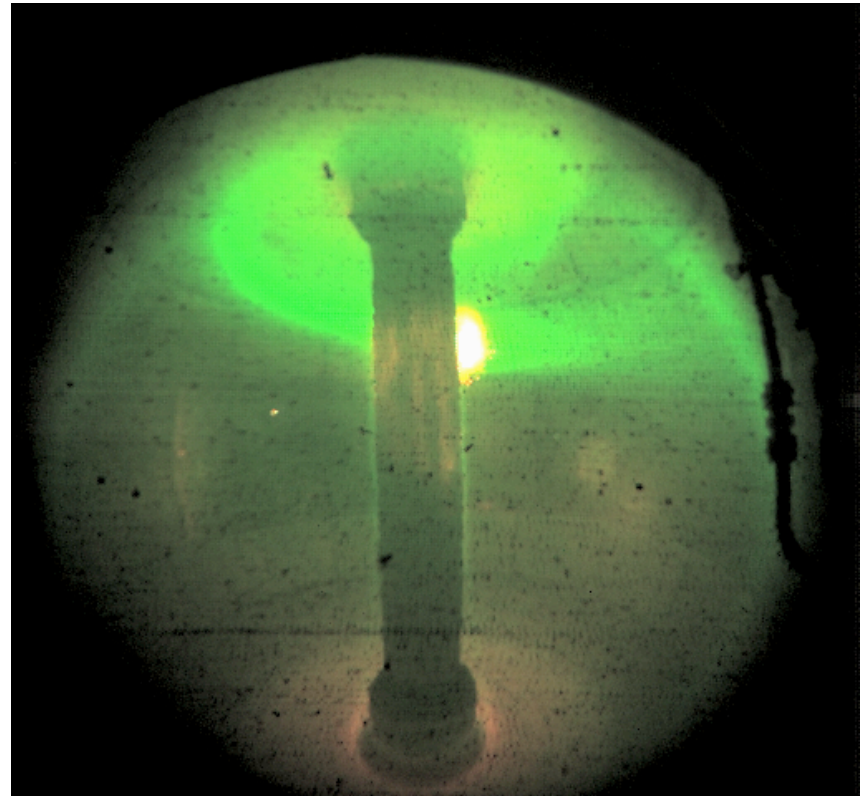
The Subtle Difference Between 130386 and 130389



130386 @ 85 ms No Li



130389 @85 ms Early Powder



XP- 828 Initial Results and Observations



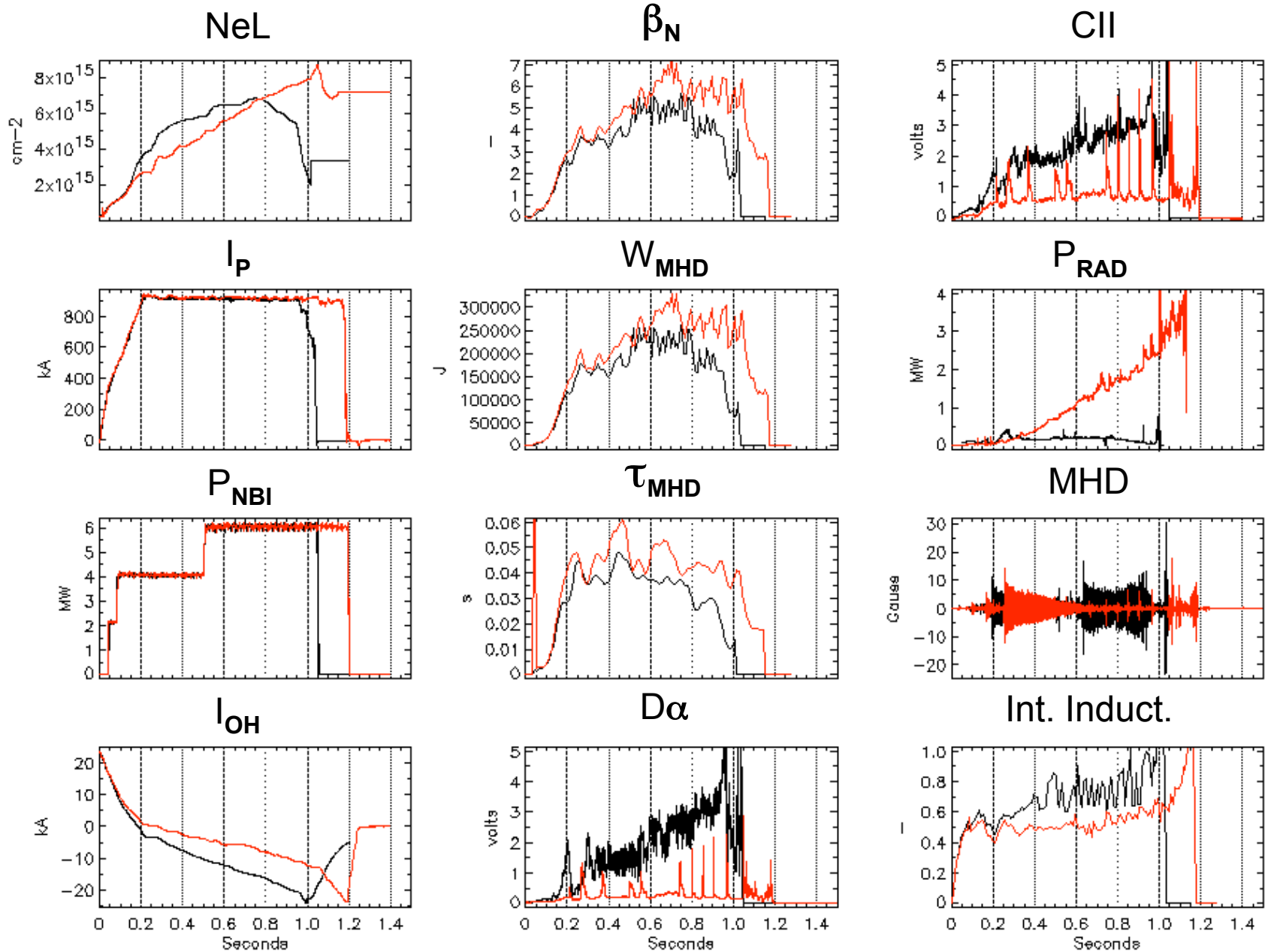
- NSTX much more tolerant of Li powder than expected
- A prima facie case can be made that powder is much more efficient and effective than LITER evaporation
- Observed significant decrease in $D\alpha$ / CII with 10s mg of Li
- Observed significantly reduced $Z_{eff}(0)$
- Observed square Te and Ne profiles from early injection
- Timing and location of deposition appear to be important
- Li Particle lifetime 50 ms (being modeled at UCSD)
- Analysis continues ...

Extra Slides

Shots:
129012 **No Li**
129064 **700 mg LITER**

XP 826 First 2008 LITER

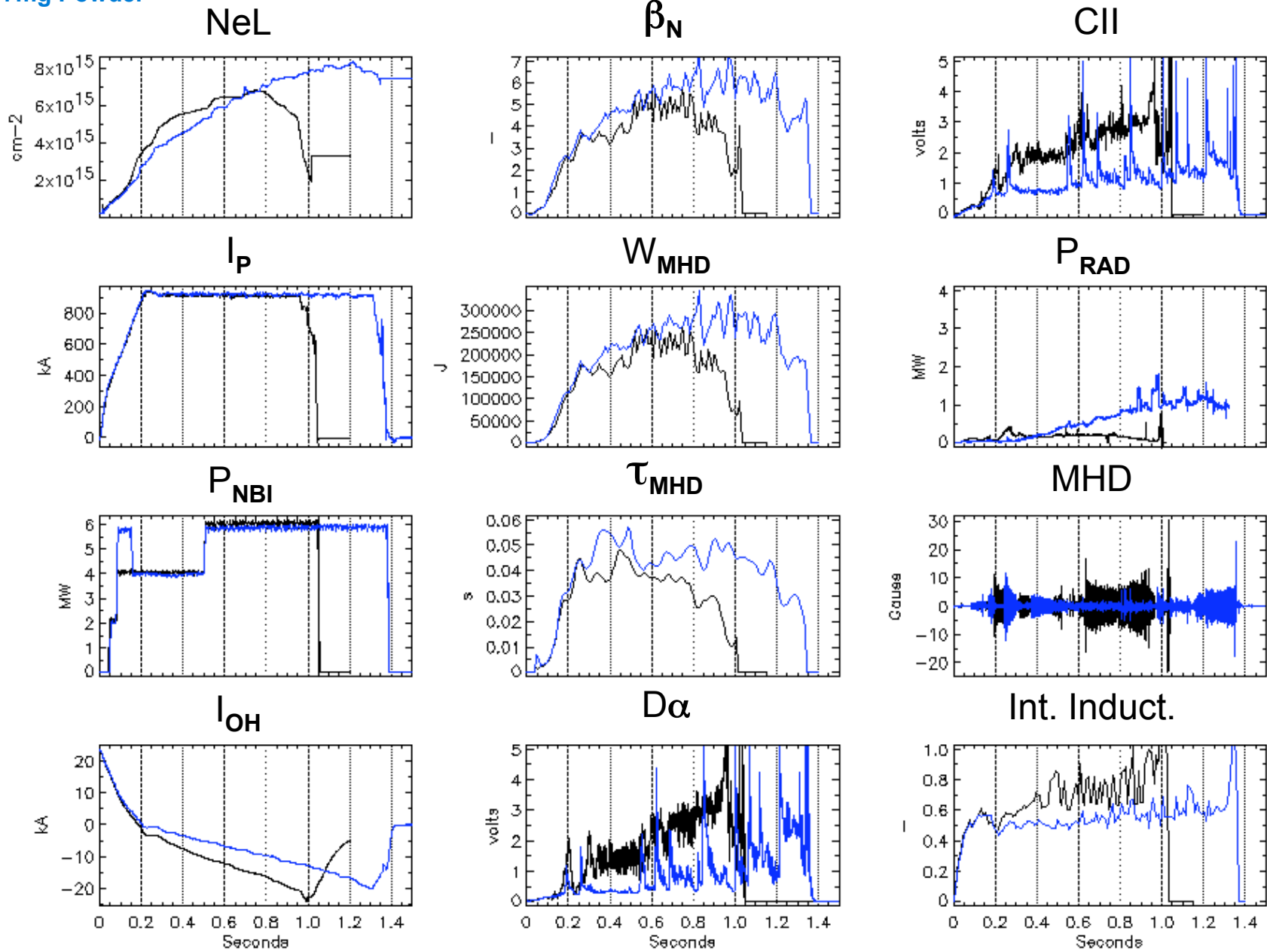
2100 mg Li Deposited Previous 3 Shots



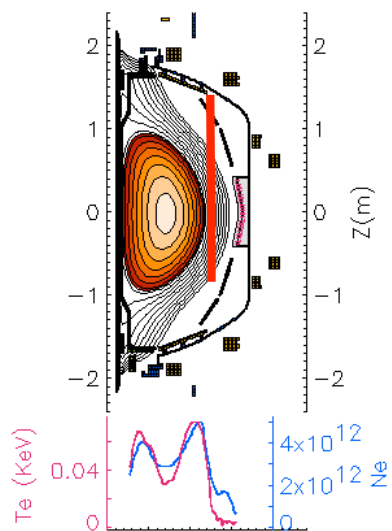
Shots:
129012 **No Li**

130389 **7mg Powder**

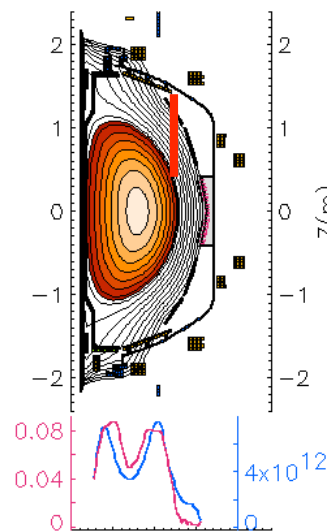
XP 828 First 2008 Powder 80 mg Li Deposited Previous 11 Shots



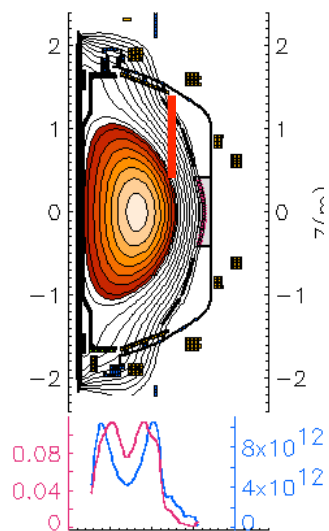
25 ms



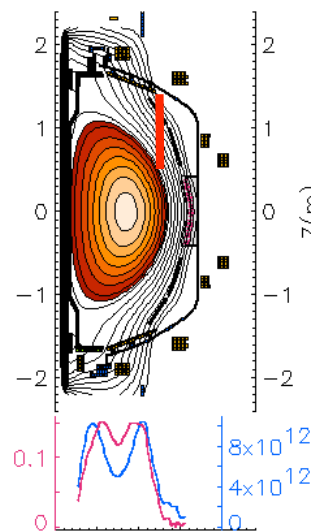
36 ms



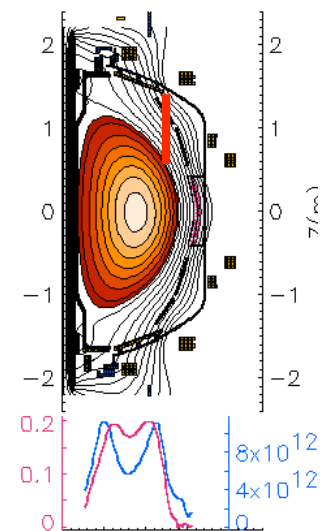
47 ms



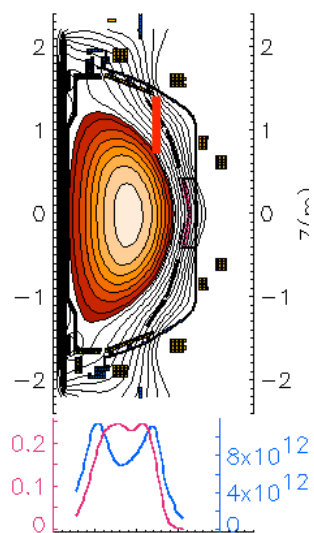
58 ms



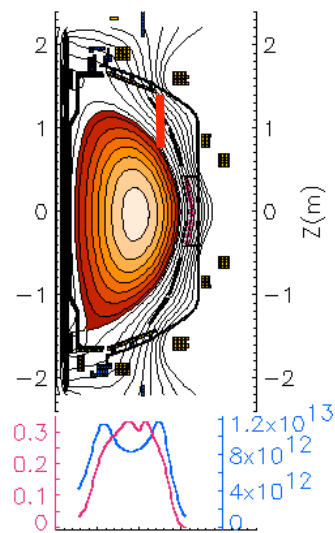
69 ms



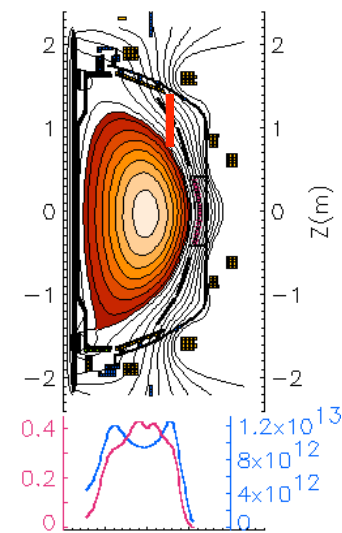
80 ms



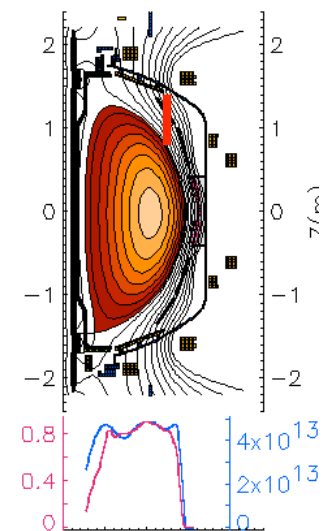
91 ms



102 ms



509 ms



Early Evolution of No Li Plasma

