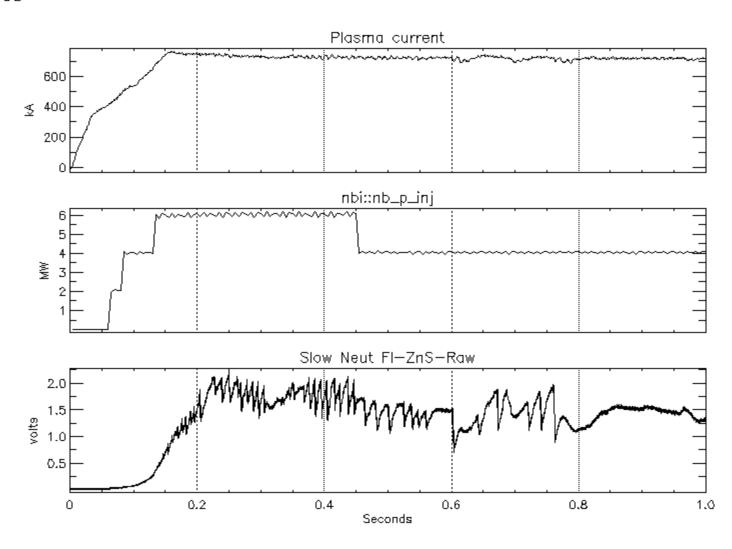
## XP 905 Goals

- Generate BAAE/EPM bursts during steady I<sub>p</sub> phase of discharge, widely separated enough in time to allow good MSE measurements of the current profile before and after to assess effect of bursts
- ✓ Measure fast ion loss pitch angle and energy distributions sFLIP
- ✓ Measure effects on confined beam ions (FIDA)
- ✓ Measure mode structure with reflectometry, SXR arrays
- June 8 & 9: handful of good shots obtained

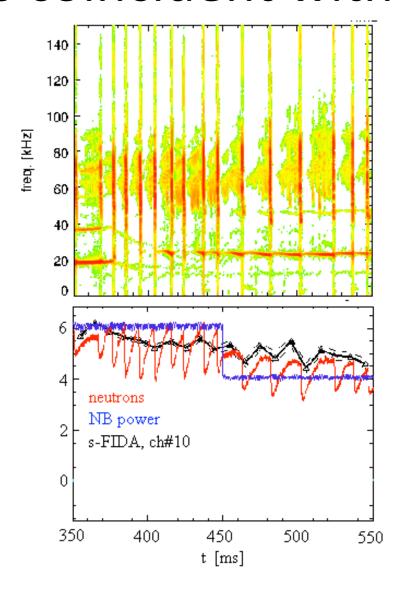
## Good shot showing neutron drops

Shots: 134195

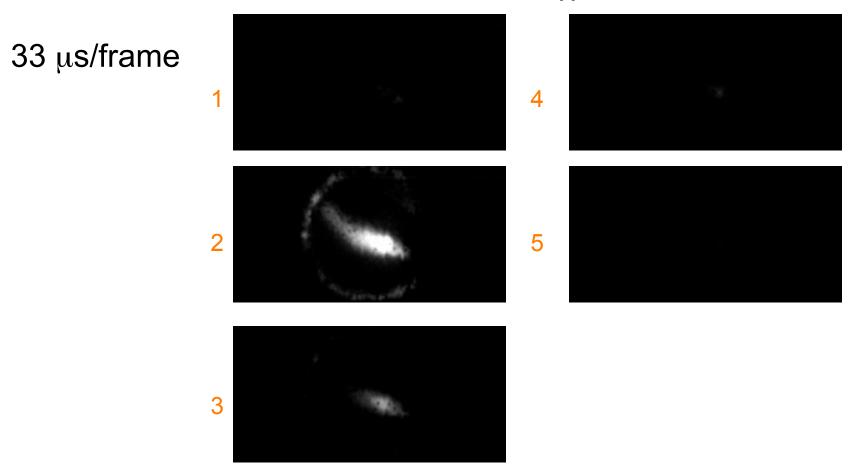




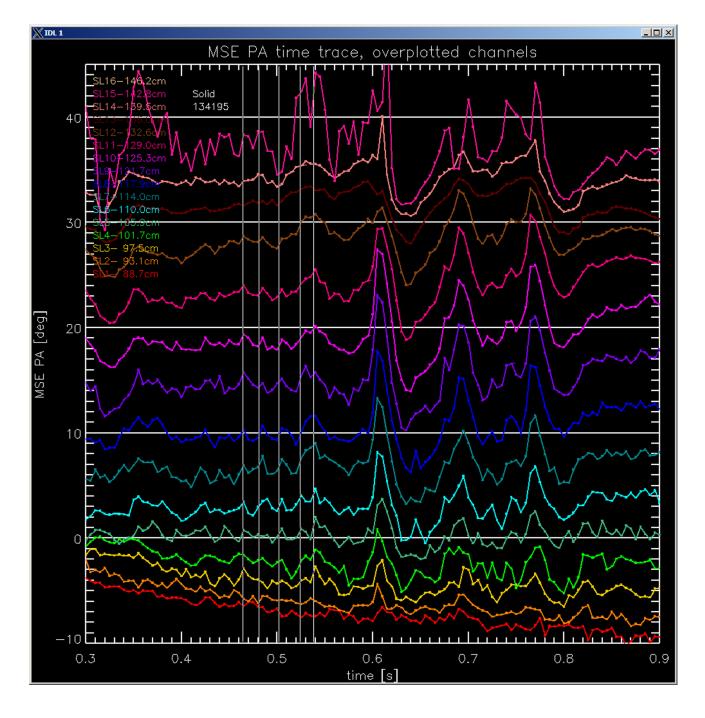
## FIDA data shows drop in confined fast ions coincident with bursts



## sFLIP shows fast ion loss occurs within 100 $\mu$ s ( $\Delta S_n = 36\%$ )



Rotational braking, to determine mode freq near zero flow shear, not done



Changes in MSE pitch angle at bursts are comparable to those produced by other commonly occurring MHD (800-900 ms)