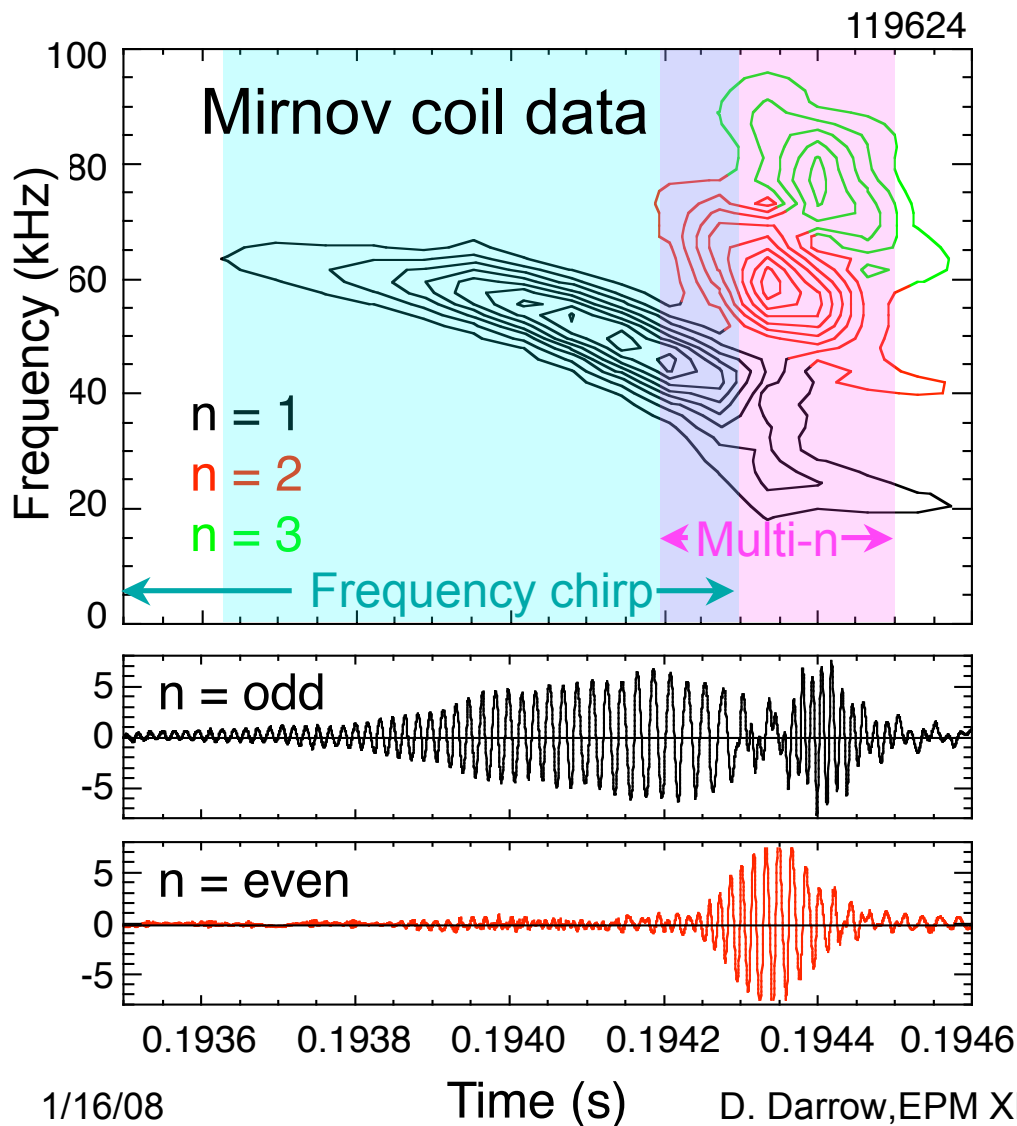
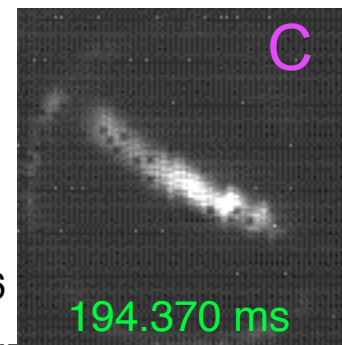
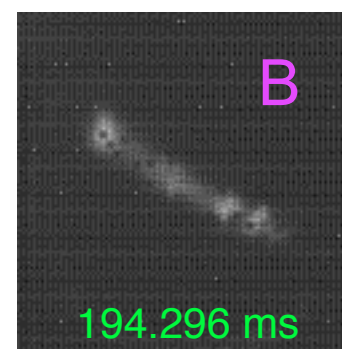
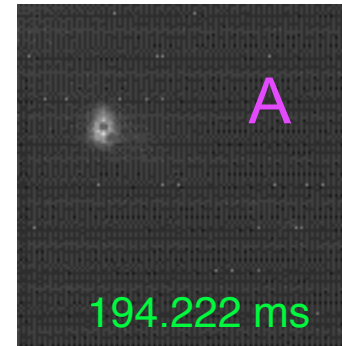
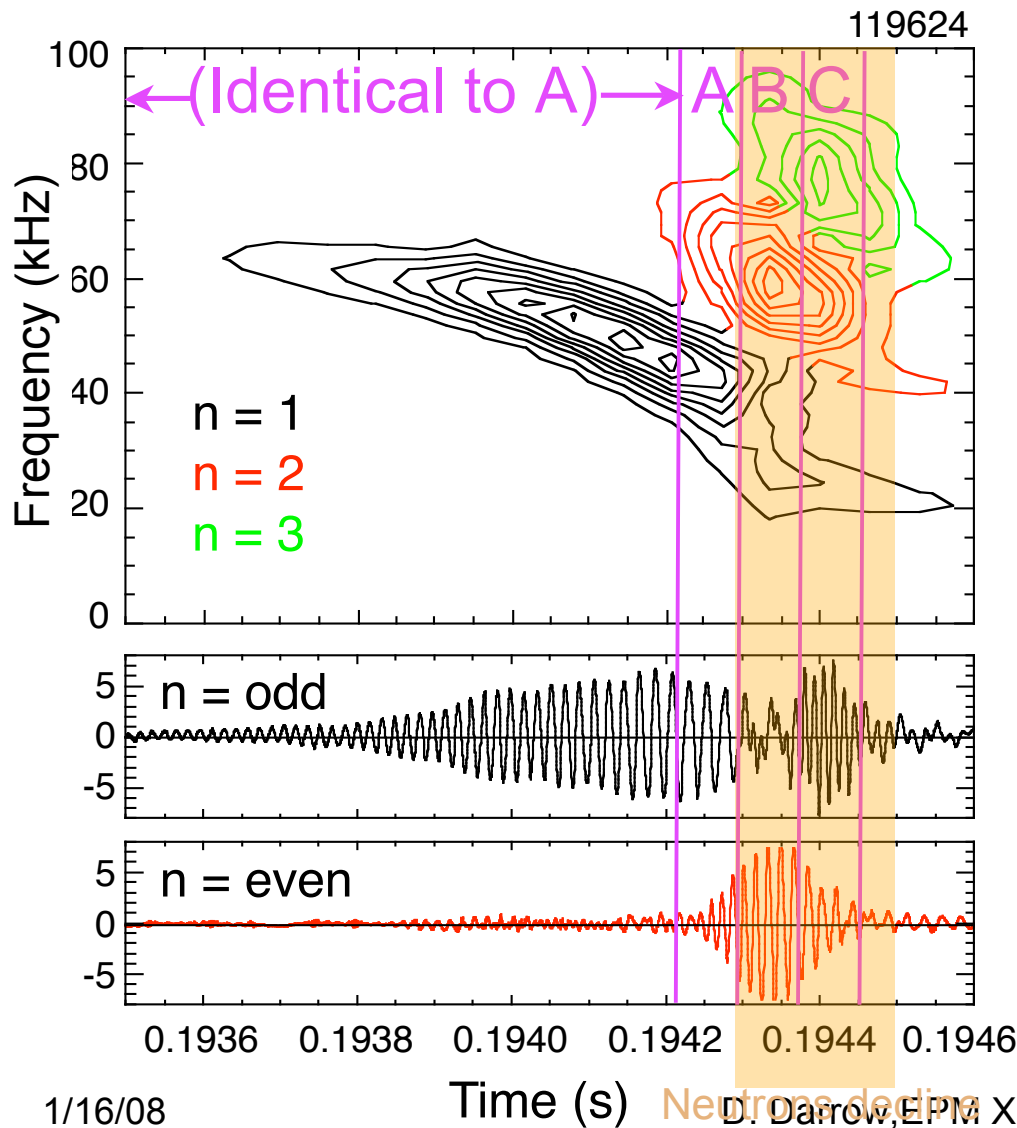


Event has significant frequency chirping, multiple n values



- $n=1$ chirps 65 to 40 kHz in $500 \mu\text{s}$
- $n=1, 2, \& 3$ all present
- Possibly BAAE

Broad pitch range lost when multiple n values present



- Neutron rate declines when multiple n values present & broad pitch angle loss seen
- Stochastic phase space?

XP goal: Get mode structures for modeling



- Use 125038 as template discharge (1 MA, 3 sources)
- Recover modes on Mirnovs & sFLIP
- Get mode radial structure measurements from SXR array, reflectometers, FReTIP
- Get data from fast ion diagnostics (NPA, FIDA, SSNPA, neutrons)
- Get MSE data

Adjust plasma parameters to optimize measurements



- Try puffing Ar if SXR signal level low
- Add early gas puff if higher n_e needed for reflectometers

- 1/2 day requested

Post-run analysis



- Fit mode structures to SXR & refl profiles
- Run NOVA-K to get ideal MHD mode structures
- Compute losses with ORBIT, compare with measurements