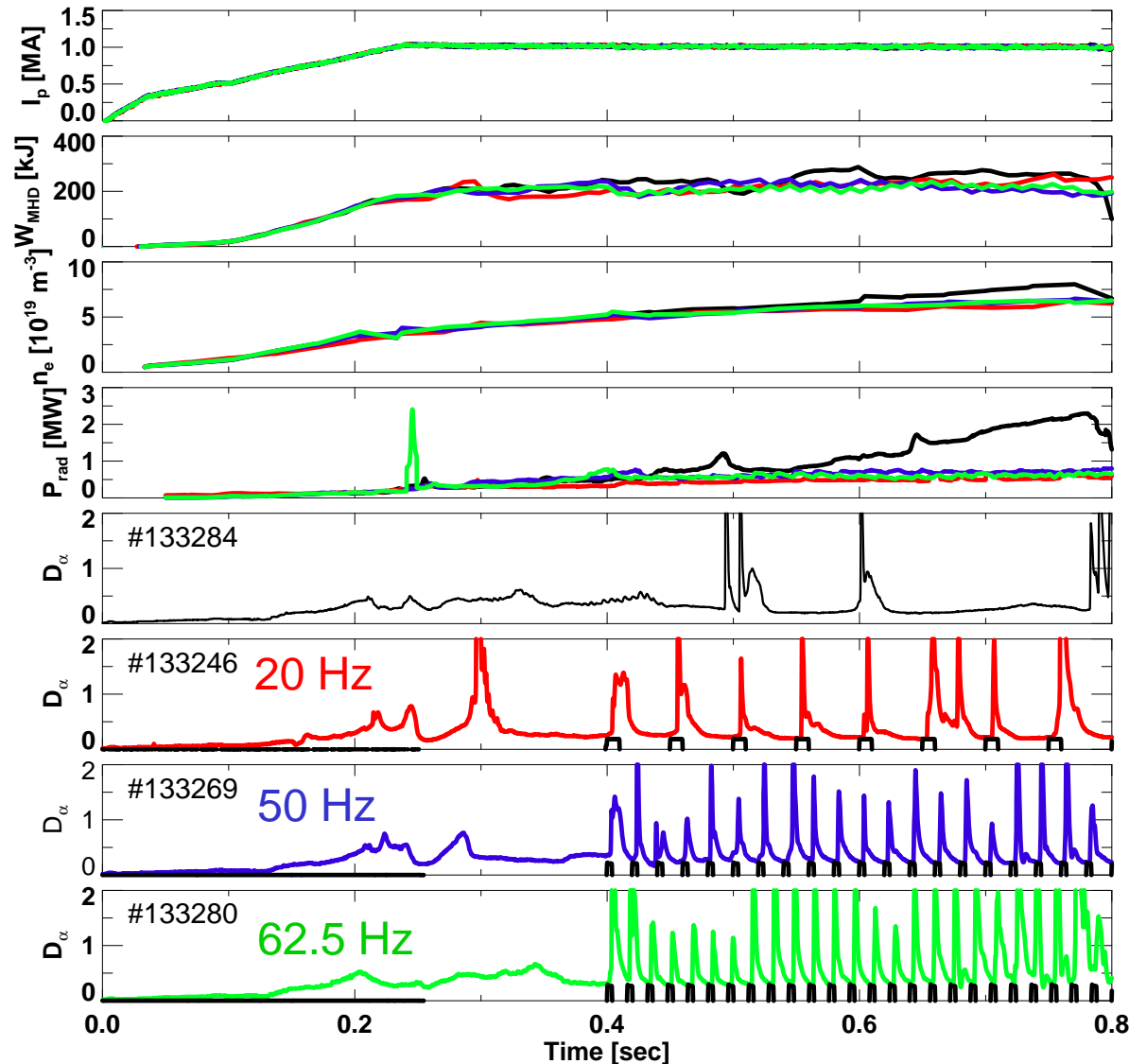


XP 943: Optimization of ELM Triggering

- Goal of XP: optimize for small ELMs and arrest of n_e, P_{rad} rise by varying $n=3$ waveform, shape, fuelling
- Waveform improved to achieve triggering frequency over 60 Hz with 100% reliability
 - Double from last year
 - Waveform uses large amplitude (up to 3kA), short (4 ms) pulses
 - 100% triggering maintained at 77 Hz for a few pulses (short shots)



Shape optimization

- Triggering performed up to $\kappa \sim 2.55$
 - Problems maintaining shape at highest κ , but sufficient data to extract ELM size
- No obvious trends in effectiveness of pacing
- Analysis of ELM size underway

