



F09-Waves excitation by REs

Goals

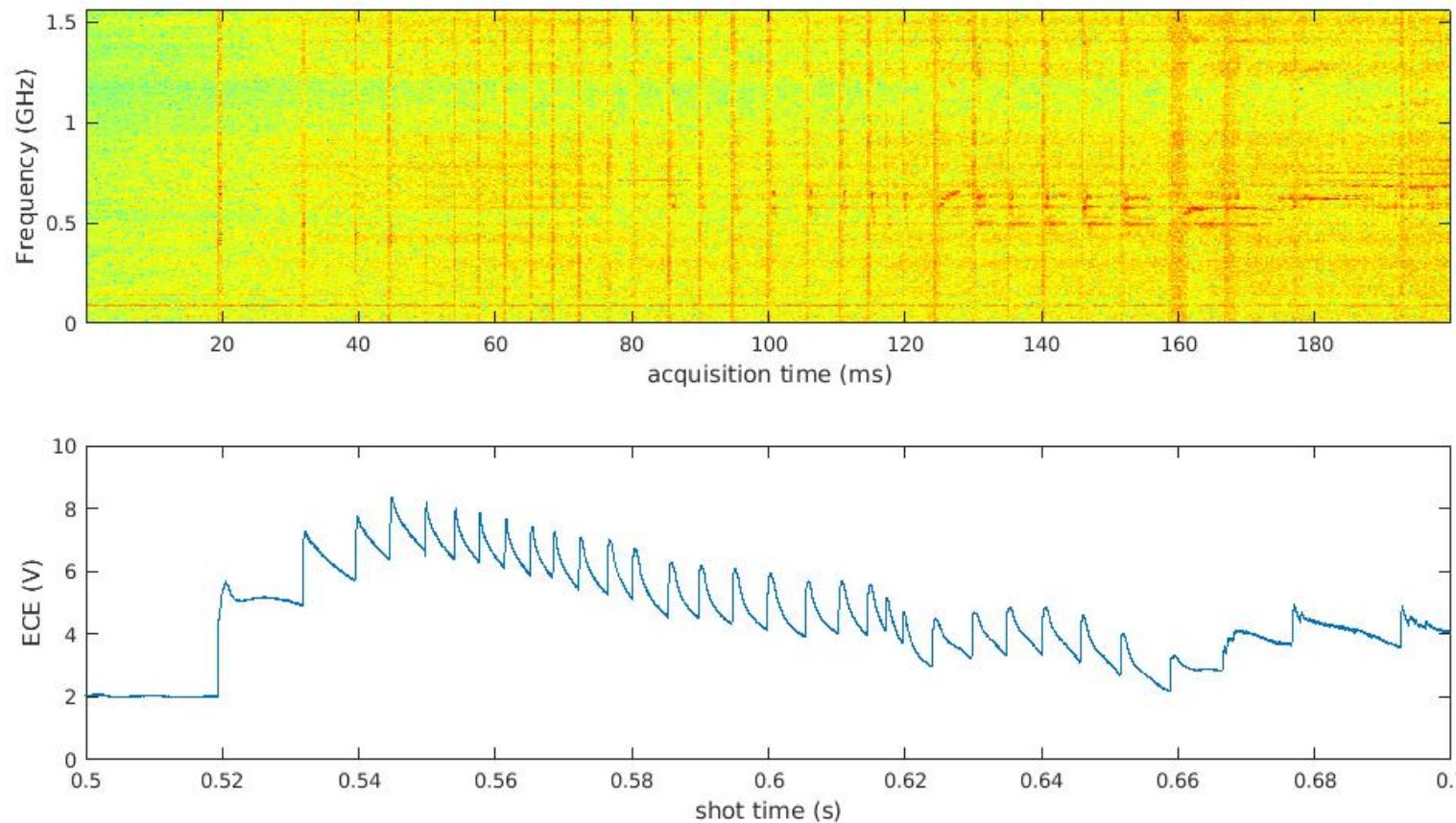
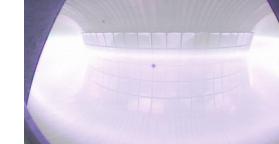
The main aims of this experiment are :

- Measure frequency spectra of plasma waves excited by RE in FTU.
- Investigate the relevant dispersion relation.
- Investigate the excitation mechanism (anomalous Doppler or Cherenkov resonance).
- Investigate influence on re-heating of cold background plasma.
- Integrate wave spectra with REIS data

Scenario

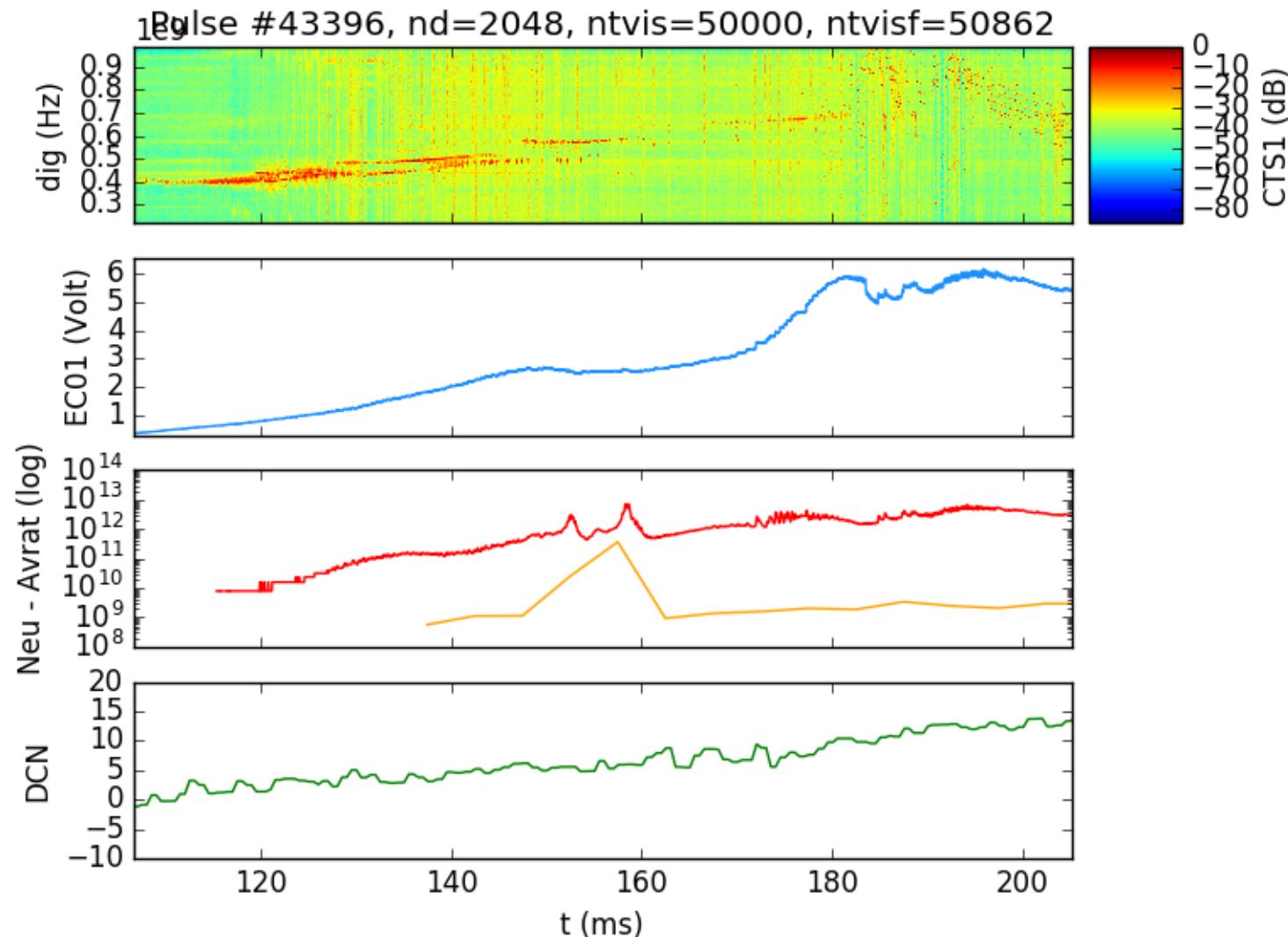
- **Post-disruption RE beam with anomalous Doppler instabilities**
- RE formation during **initial current ramp-up**
- Wave spectra response to density variations by **ECRH**.
- Excitation in low-density plasmas before disruption.

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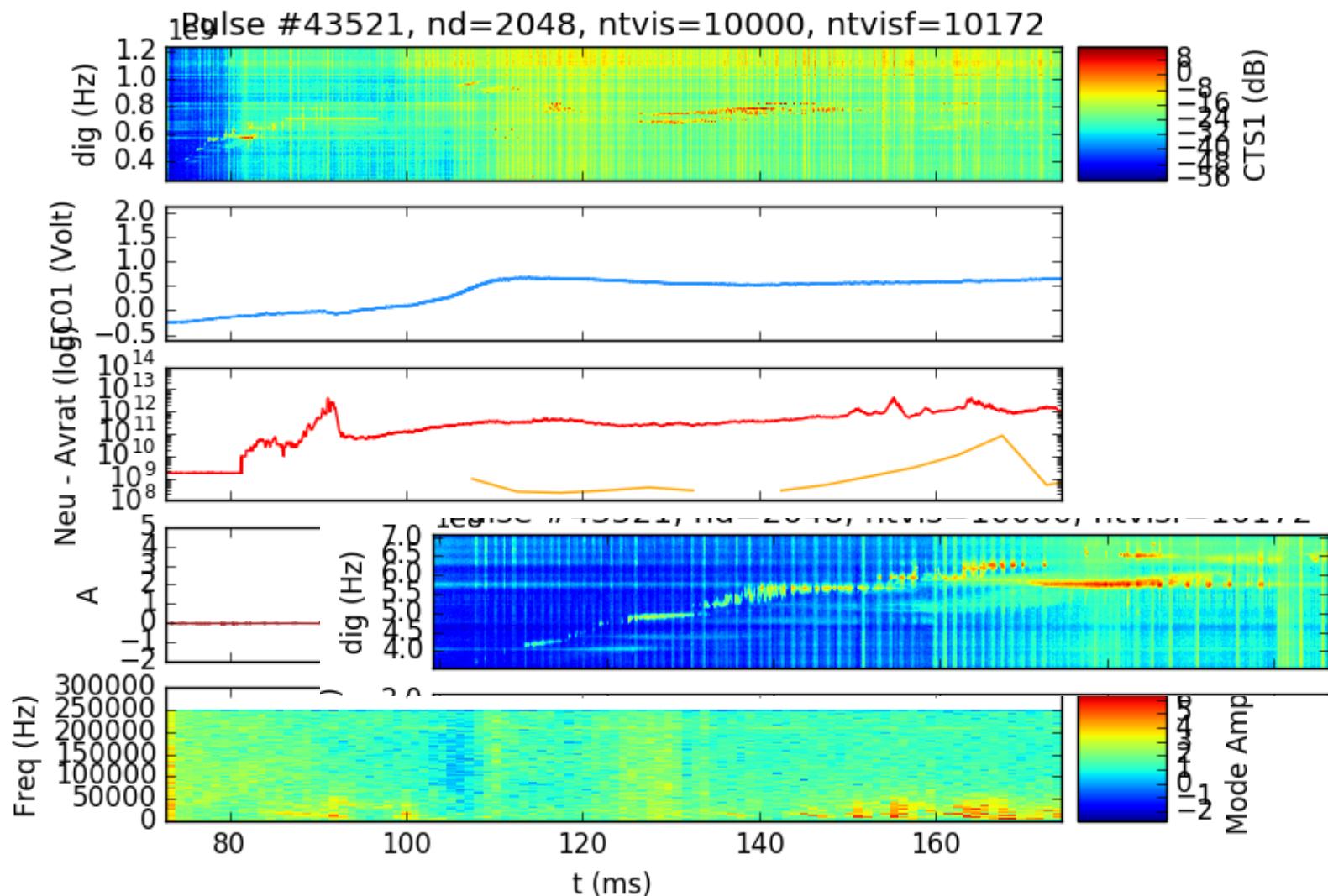
42927 Post-disruption RE beam with anomalous Doppler instabilities

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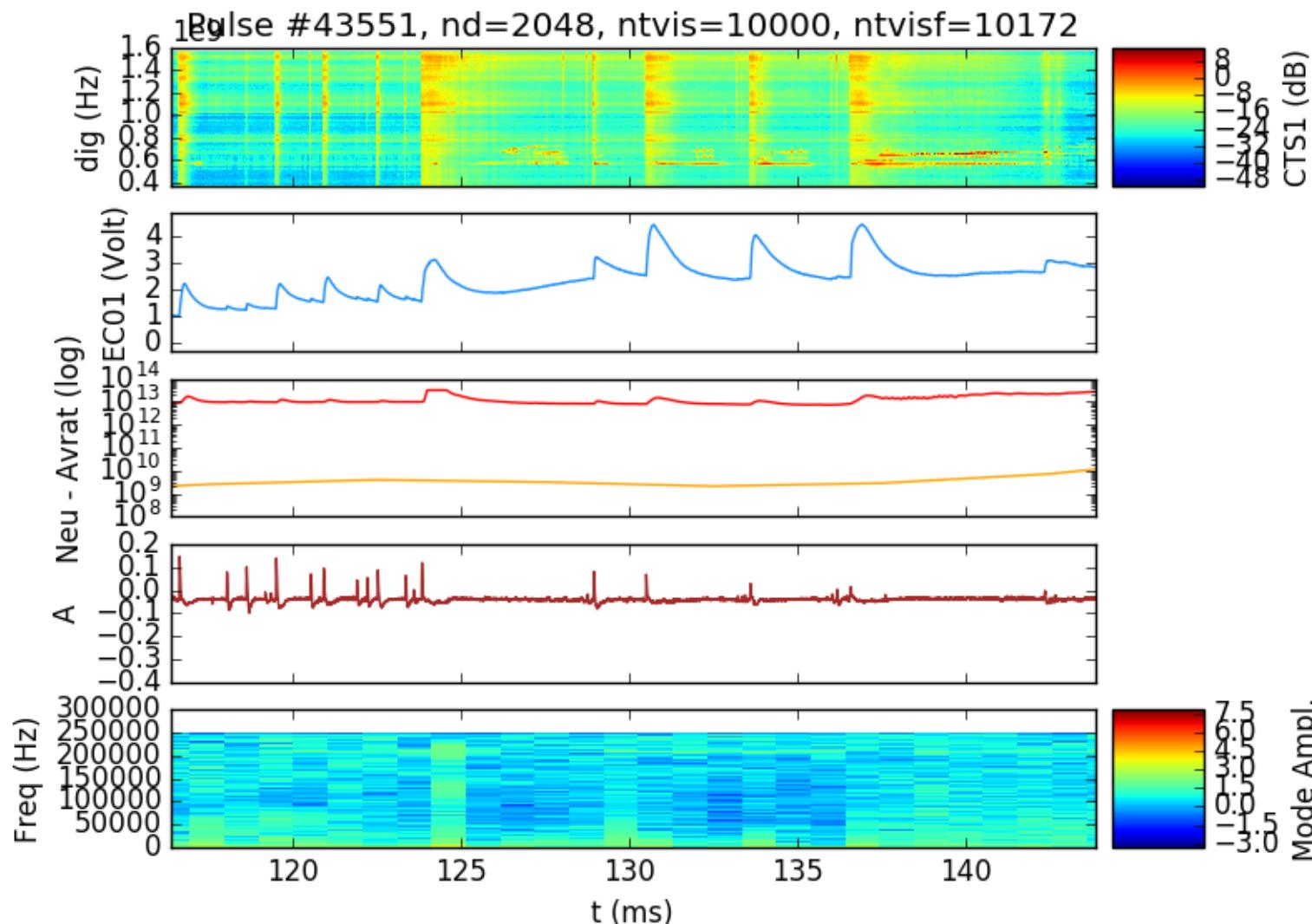
43396 Initial RE with continuous lines

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43521 Initial RE with continuous lines and broadband

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43551 Initial RE with ADI and continuous lines

F09 and F18 (parasitic) sessions



- C1: data on post-disruption RE beam.

C2:

- 30 Oct. (12) B=5.3&2.7T Initial Ip ramp-up
- 06 Nov. (11) B=5.3&4 1.6 & 3.2GHZ Nyquist freq
- 07 Nov. (10) B=5.3&4 New aerial
- 12 Nov. (1) B=5.3
- 13 Nov. (16) B=5.3 Timing scan
- 14 Nov. (24) B=6 Density scan; technical problems