

# Analysis Tasks (TAE)

- TAE
  - linear (141710-141711)
    - LRDFITs
    - Reflectometer (Eric/Neal/?)
    - Energetic Particles (anything for TAE linear phase?)
    - TRANSP (Eric/Mario)
    - NOVA (Eric/Mario/?)
    - M3D-k (Fu/Mario?)
  - L-mode Avalanches (135388,135419, +?)
    - LRDFIT/TRANSP (done)
    - Reflectometer (some is done?)
    - FIDA/NPA
    - NOVA (135388 is started)
    - ORBIT/SPIRAL
  - H-mode Avalanches 138865, +?
    - LRDFIT/TRANSP/data/ all need to be done
    - Avalanches not really clean, looking for better examples

# Analysis tasks, GAE/CAE.

- GAE/CAE
  - Angels
    - First paper nearly finished? need to sort out some resonance/stability issues.
    - Analyze shots with internal data on mode amplitude?
    - SPIRAL to model interaction with mode?
  - Avalanches
    - Paper ready for submission
    - Follow-up work, BES data analysis, HYM
    - SPIRAL to look for avalanche threshold.
  - Stochastic threshold (thermal, fast ions)
    - SPIRAL?

# Overview paper?

- List of EP-driven instabilities
  - Bifurcated modes
  - Saturated f.b., long-lived modes
  - fishbones/bounce fishbones
  - BAAE-GAM-EHO
  - Cascades/rsAE
  - TAE (Avalanches, chirps, bursts, hole-clumps, ctr-propag)
  - EAE
  - $n=0$  modes (GAE, other)
  - Divertor ICE
  - Angels (CAE or GAE?)
  - GAE (Avalanches, chirps, bursts, ...)
  - CAE (Avalanches, bursts, no chirps?, co/ctr, ...)
  - Trans-IC modes