

# STUDY OF TAE/EPM MODES IN NSTX

NSTX research forum  
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- Several MHD modes are observed in the TAE frequency range and below, during NBI heating.
- Often these modes are enhanced by simultaneous injection of NBI and HHFW.
- We are in the process of analyzing the data collected so far:
  - ◆ are the modes TAE and/or EPM similar to the ones observed in TFTR and DIID?
  - ◆ are there fishbones?

# **EXPERIMENTAL PROPOSAL**

We propose to complete the characterization of these modes using NBI alone and in conjunction with HHFW.

We are investigating the possibility to excite various Alfvén instabilities by means of external coils to study the characteristics such as growth rate and damping.

AMPLITUDE SPECTRUM OF SIGNAL

