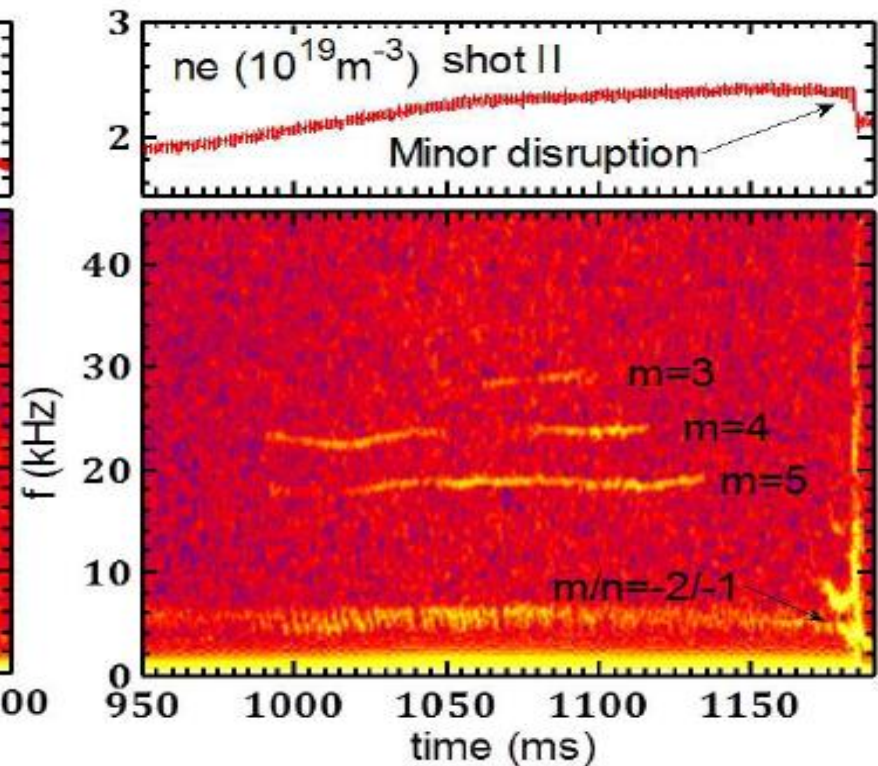
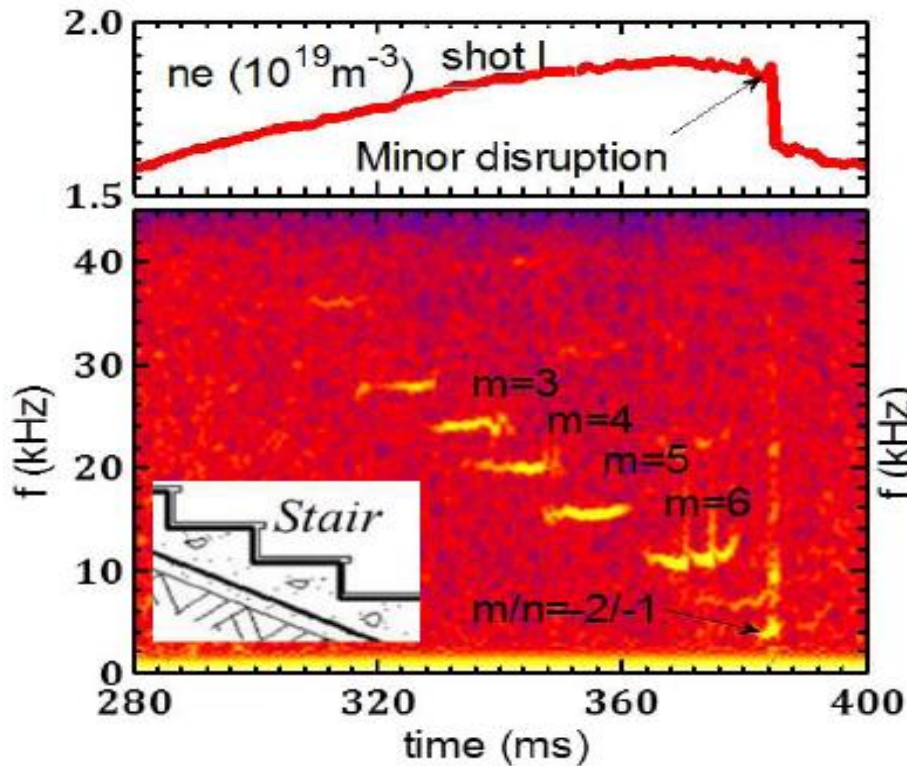


Alfvenic Ion Temperature Gradient (AITG) Mode

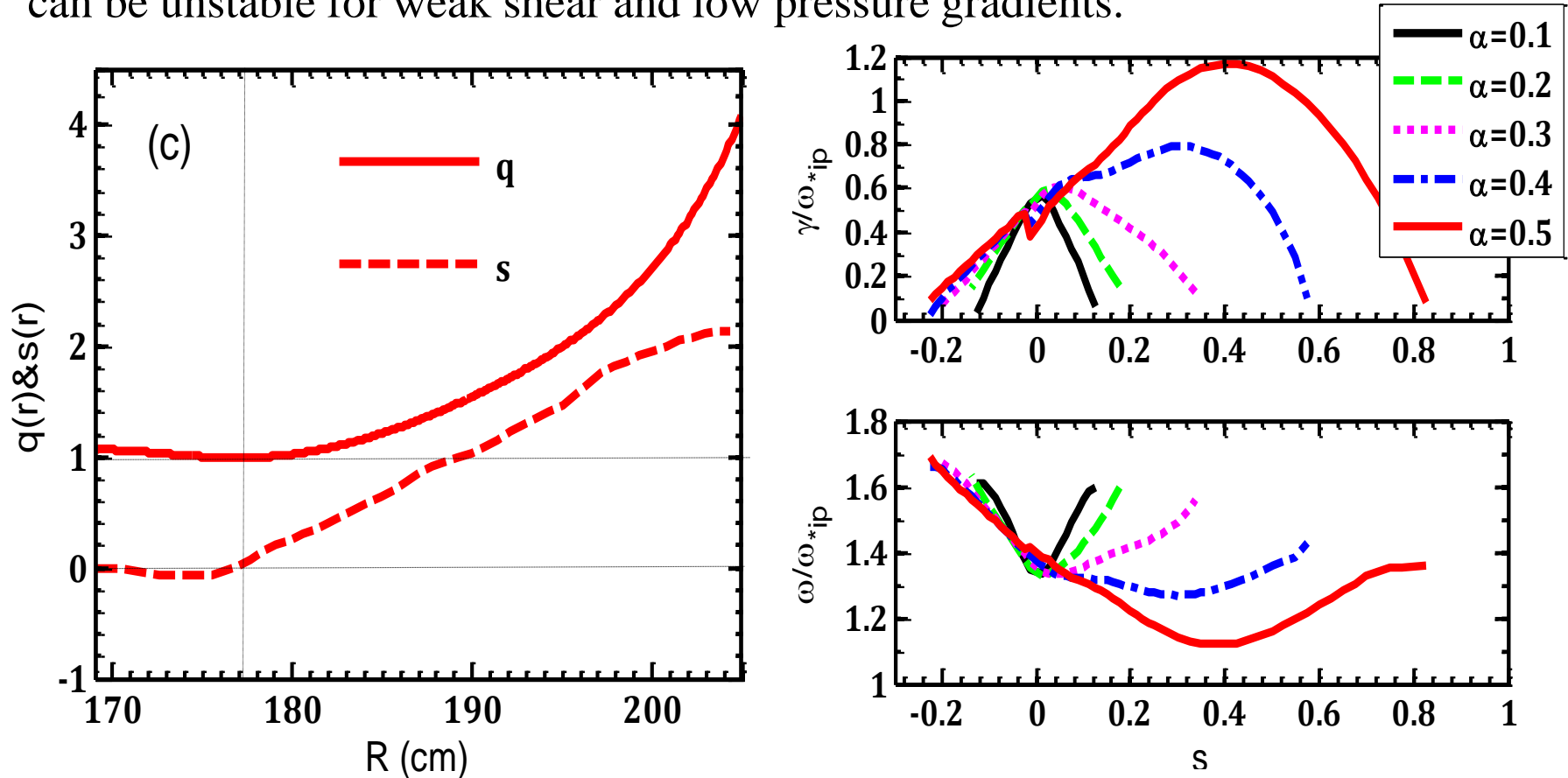
- Appear in the high-density Ohmic plasmas with weak magnetic shear and low pressure gradients;
- $f=15-40$ kHz which lies in KBM-AITG-BAE frequency ranges;
- Low mode number $m \sim n=3-6$;
- Propagate in the ion diamagnetic drift direction;
- Link with the minor disruption of plasma.

*W. Chen, et al. 2016 IAEA EX/P7-17.
Submitted to NF.*



Alfvenic Ion Temperature Gradient (AITG) Mode

Numerical solutions of the AITG/KBM equation also illuminate why AITG modes can be unstable for weak shear and low pressure gradients.



Safety factor and magnetic shear during existence of coherent modes (Left. col.). Real frequency and growth rate of AITG modes (Right. col.).

