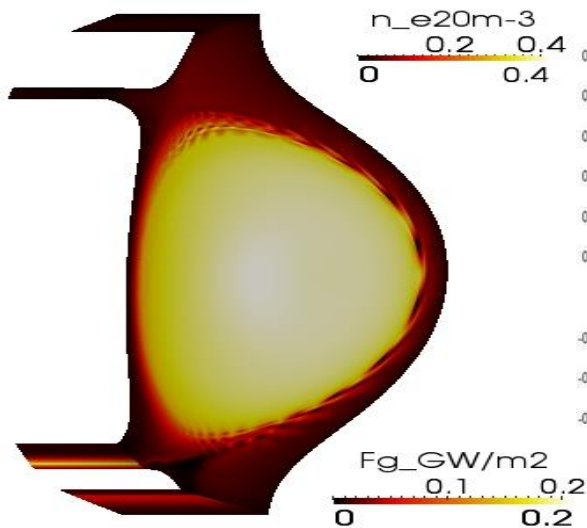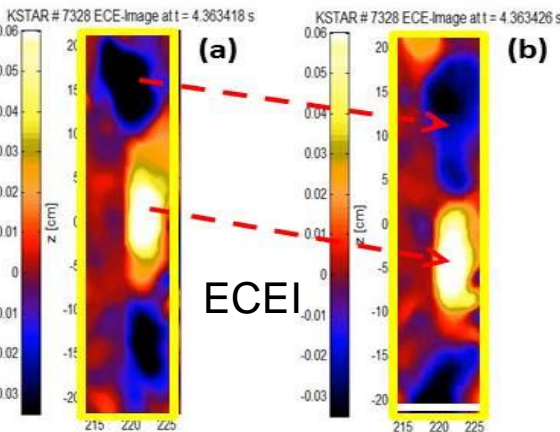**The non-linear MHD modelling of full ELM dynamics using JOREK code including toroidal rotation and two fluid diamagnetic effects for KSTAR pulse reproduced many ECEI diagnostic observations.**
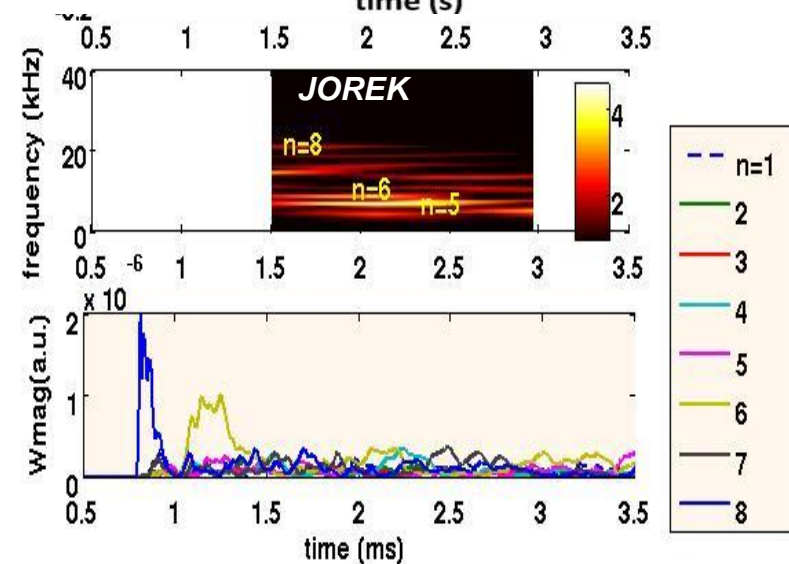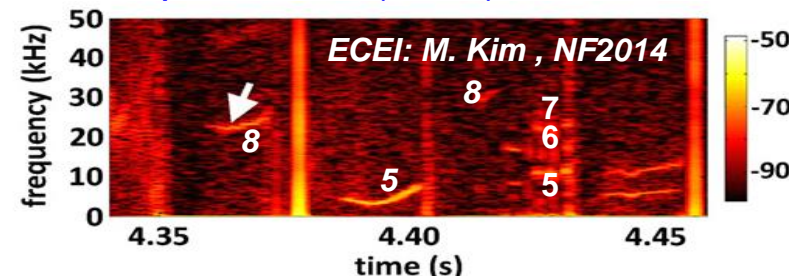
Density filaments in ELM crash.

Poloidal rotation (V~5km/s) of δTe (N=8) before ELM crash.

δTe spectra in multi-harmonic multi-cycles modelling in inter-ELM phase are similar to experimental (ECEI).

ECEI

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JOREK

Edge ergodisation during ELM.