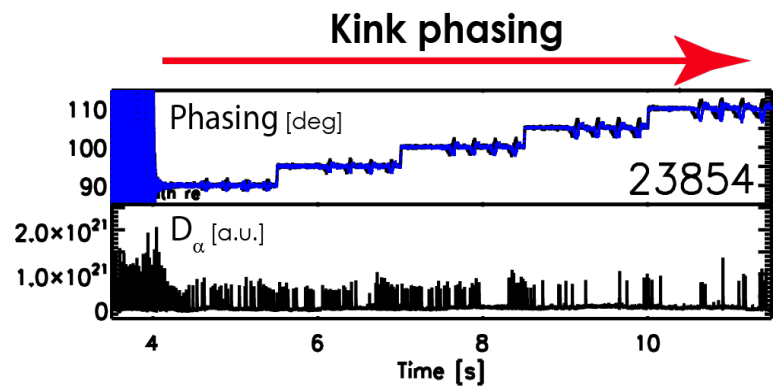


# EX-4-6 RMP-driven ELM-crash-control needs to be holistically understood, along with the corresponding divertor thermal loading

Rapporteur (Y. In et al)

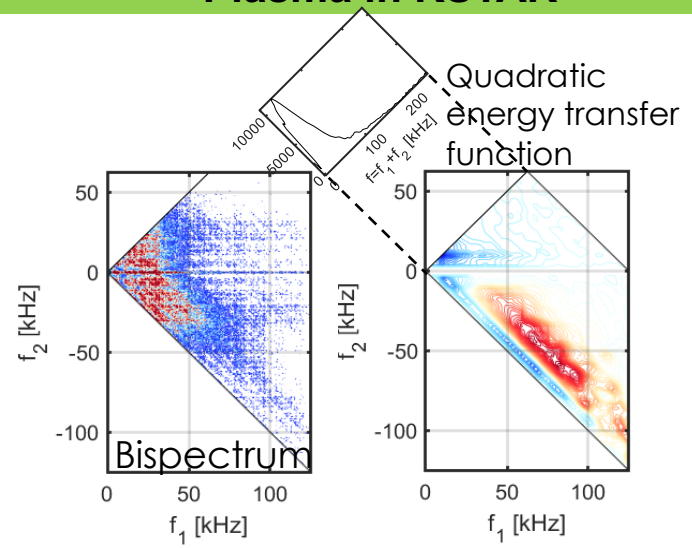
Toward holistic understanding of the ITER-like resonant magnetic perturbation (RMP) ELM control on KSTAR



- Articulated the synergistic benefit of kink influence on RMP-driven, ELM-crash-suppression at sub-marginal RMP strength, consistent with theory
- Even when the mid-row is energized, the divertor heat flux broadening identified in 3-row IMCs has NOT been observed in 2-row IMCs

Rapporteur (J. Lee et al)

Edge Fluctuation Dynamics in RMP-Driven ELM Suppression and ELM-free H-mode Plasma in KSTAR



- RMP-Induced turbulence interacts nonlinearly with coexisting ELM filament and dissipates free energy for ELM growth through energy exchange
- Natural ELM-free QH-mode is usually accompanied by a benign MHD oscillation, where the perpendicular flow shear may be important to sustain the ELM-free phase