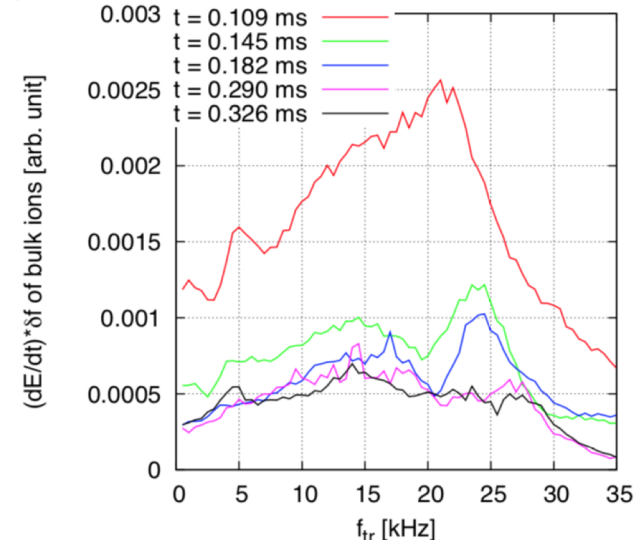
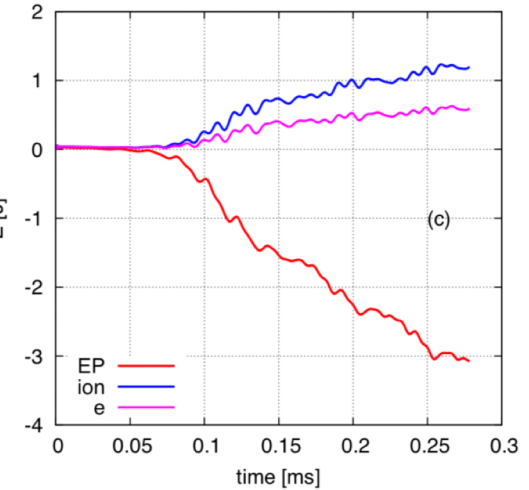
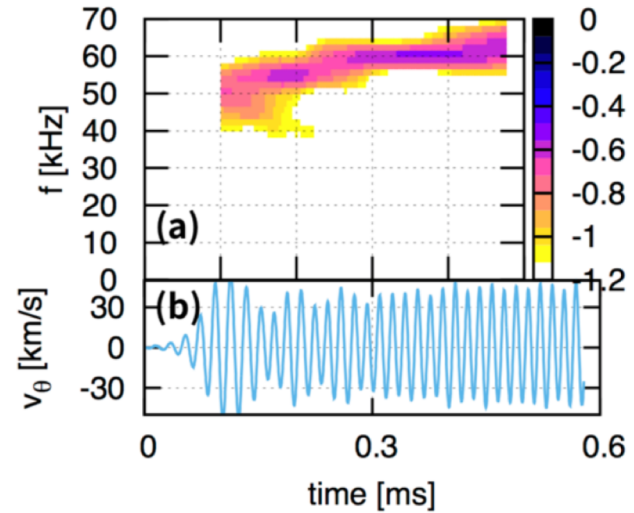
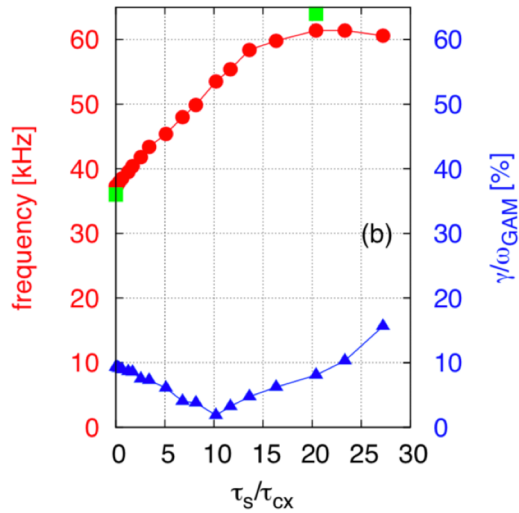


# Simulations of two types of energetic particle driven geodesic acoustic modes and the energy channeling in the Large Helical Device plasmas

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- ❖ The transition between low frequency and high frequency EGAMs is decided by the slope of EP velocity distribution.
- ❖ The EGAM channeling is reproduced by simulation for the first time.
- ❖ The sideband resonance is dominant during the energy transfer from EGAM to the bulk ions, and the transit frequencies of resonant bulk ions are half EGAM frequency.