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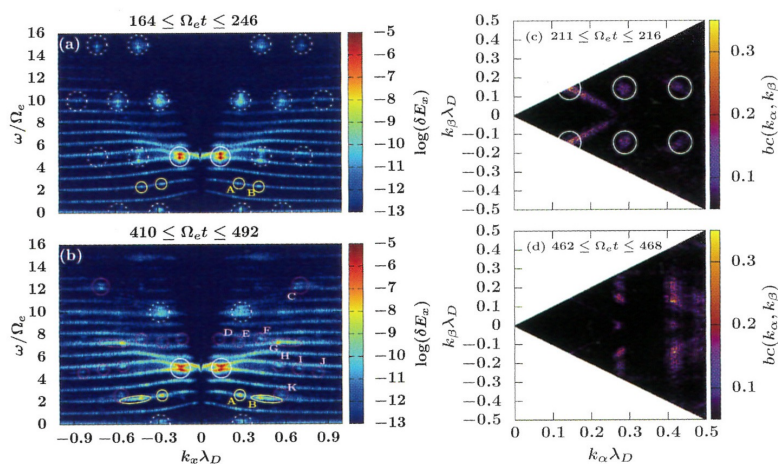
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The harmonic structure of upper hybrid waves driven by ring-like energetic electrons is examined. Figures 1a and 1b present the wavenumber-frequency spectra of electric field fluctuations, where the harmonic structure appears at integer multiples of the wave-number and frequency of the upper hybrid waves. Figures 1c and 1d display the bicoherence indices, which evaluate non-linear coupling between waves, and indicate that the harmonic structure is excited by non-linear wave-wave coupling of upper hybrid waves. (Tsubasa KOTANI *et al.*, Plasma and Fusion Research, Vol. 19, 1201033 (2024) <http://www.jspf.or.jp/>)