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Modeling of wave dissipation around X-points

Oscillations around the X-points play an important role in corona plasma heating. In this paper we investigate resonance absorption around X points. We have found analytical solutions for the Alfvén continuum mode in the presence of a guide field. We also derive jump conditions in the flux coordinates. Using these conditions, we obtain the dispersion relation and solve it numerically to find the frequencies and damping rates. The results show that resonance absorption can be an effective mechanism for damping the waves around the X points.

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