Abstracts

Resonances in a Cylindrical Plasma Column (Correspondence)

J. Willis and I. Petroff. "Resonances in a Cylindrical Plasma Column (Correspondence)." 1962 Transactions on Microwave Theory and Techniques 10.5 (Sep. 1962 [T-MTT]): 395-396.

A plasma column irradiated by an electromagnetic wave which has its electric vector and direction of propagation perpendicular to the axis of the tube exhibits Tonks-Dattner resonances in its absorption pattern when the electron density in the column is varied. The pattern consists of a main resonance and a number of less pronounced subsidiary resonances at currents corresponding to electron densities Iower than that of the main peak. The subsidiary resonances grow progressively smaller as the electron density decreases.

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