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On the Resonant Properties of THz Laminated Accelerating Structures

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The results of theoretical, numerical and experimental studies of THz laminated structures for particle acceleration are presented. The two-layer metallic and metal-dielectric structures are considered. The analytical presentations for longitudinal impedance and wake potential are given. The resonant properties of the synchronous TM₀₁ fundamental mode are discussed and the conditions for the single-mode traveling wave structure are examined.

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