4th European Advanced Accelerator Concepts Workshop



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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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