



EM radiation in the interaction of laser pulse and magnetized plasma

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | On the radiation phenomena in the interaction between ultra short-intense laser and magnetized plasma | A new mechanism of generating electromagnetic radiation from high density magnetized plasma has been studied theoretically and experimentally. In this radiation scheme, a large amplitude plasma wakefield is generated by an intense laser pulse or a relativistic electron bunch in the presence of a modest perpendicular dc magnetic field. The initial motion of plasma electrons due to the laser ponderomotive force make them rotate around the magnetic field lines and generate the electromagnetic (EM) part in the wake with a nonzero group velocity. The magnetized wakefield propagates through the plasma and couples to vacuum at the plasma-vacuum boundary. | Format: Paperback | Language/Sprache: english | 160 gr | 220x150x6 mm | 108 pp.

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