



High Harmonic Generation from Relativistic Plasmas

By Baeva, Teodora

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Relativistic Similarity, Sub-attosecond Pulses, and Coherent X-rays | Laser technology has recently made accessible relativistic intensities. The contemporary relativistic laser-plasma physics is in urgent need of new ideas to explain the highly non-linear response of matter exposed to radiation driving electrons nearly to the speed of light. This book studies relativistic laser-matter interaction with emphasis on coherent X-ray generation and phenomena at the critical surface. The theory of relativistic spikes predicts the universal harmonic spectrum and the X-ray source's robustness, which were confirmed experimentally. It describes the generation of high-energy electrons by the critical surface and coherent X-rays at the front and rear plasma side. This theory shows the universal features of relativistic dynamics and their connection to similarity, which traditionally advances hydrodynamics and engineering. Tunable coherent X-ray sources and attosecond metrology are some of the perspective applications of the novel physics. The book is intended for graduate and postgraduate students, scientists and engineers interested in relativistic laser-plasma theory, X-ray sources, ultra-short pulses, inertial fusion and original ideas of modern physics. | Format: Paperback | Language/Sprache: english | 168 gr | 116 pp.



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