

GENERATOR BASED ON INDUCED TRANSITION RADIATION

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Abstract. It is shown, that you can create conditions, when a flyover of ultra relativistic particles, “sliding” over corrugated dielectric surface in a waveguide line develops laser effects in the field of hard ultraviolet light. These conditions will create a tunable generator suitable for promotion of microlithography in nanotechnology.

Keywords: generation, reducing radiation, electron beam, a corrugated dielectric waveguide.