Ee-P010 Room: Lounge Time: June 26 17:30-19:00

Nonlinear waves driven by the relativistic ring distribution and their phase transition

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The relativistic ring distribution excites the electromagnetic waves at k=0 by this effect. We have performed the relativistic particle simulations and reported earlier that the wave saturation level suddenly decreases as the initial ring momentum exceeds a certain critical value. In this meeting we explain the mechanism of such a phase transition by analyzing the wave spectra and particle distributions near the critical point.

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