

TRANSITION RADIATION  
OF A MODULATED ELECTRON BEAM IN PLASMA  
WITH ORIENTED DIPOLE DUST PARTICLES

*I.O. Anisimov, Eu.V. Martysh, I.M. Voronov*

Taras Shevchenko Kyiv National University,  
Faculty of Radiophysics  
(64, Volodymyrska Str., Kyiv 01033, Ukraine;  
e-mail: [ioa@univ.kiev.ua](mailto:ioa@univ.kiev.ua))

S u m m a r y

Transition radioemission caused by the injection of a modulated electron beam into a dusty plasma with dipole dust particles oriented by the strong magnetic field is theoretically studied. The radiation pattern and the total radiated power are calculated for typical experimental conditions.