

S1-P.63

Amplification of THz radiation in the system of excitons and biexcitons

D.A. Markov and L.Yu. Nad'kin T.G. Shevchenko Pridnestrovian State University, Tiraspol, Moldova

The new mechanism of terahertz radiation generation (amplification) which is based on the use of quantum transitions between two-exciton and biexciton states is investigated. It is shown, that the enhancement coefficient of terahertz radiation depends on the pump intensity.