## **KOCH, STEPHAN**

## (Philipps University Marburg. Marburg/Germany) Microscopic Modelling of Bi containing GaAs based quantum wells

<u>Abstract:</u> Optical gain and photoluminescence, as well as radiative and Auger losses are calculated for Ga(AsBi)/GaAs quantum wells. The results are obtained using a consistent microscopic theory and an anticrossing model for the bandstructure. The influence of the bandstructure parameters on the optical properties is investigated.