



InGaN tandem blue–violet quantum well lasers with high frequency self-pulsations

Tronciu V. Z., Rusu S., Yamada Minoru

<https://doi.org/10.1007/s11082-014-9960-9>

Abstract

Theoretical investigations have been carried out to study the dynamics of tandem blue–violet lasers. The theoretical results show that self-pulsating operations are possible when one of the regions is adjusted with an external electric circuit. Self-pulsation with high frequencies has been observed in the numerical calculations. We found that features of the external circuit strongly affect the self-pulsation. Influence of device and material parameters on the laser dynamics was also investigated.