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Authors	Kusch, Gunnar;Conroy, Michele;Li, Haoning;Edwards, Paul R.;Zhao, Chao;Ooi, Boon S.;Pugh, Jon;Cryan, Martin J.;Parbrook, Peter J.;Martin, Robert W.
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Multi-wavelength emission from a single InGaN/GaN nanorod analyzed by cathodoluminescence hyperspectral imaging

Gunnar Kusch^{1,*}, Michele Conroy^{2,3,4}, Haoning Li^{2,3}, Paul R. Edwards¹, Chao Zhao⁵, Boon S. Ooi⁵, Jon Pugh⁶, Martin J. Cryan⁶, Peter J. Parbrook^{2,3}, and Robert W. Martin¹

¹Department of Physics, SUPA, University of Strathclyde, Glasgow G4 0NG, United Kingdom

²Tyndall National Institute, University College Cork, Lee Maltings, Dyke Parade, Cork, Ireland

³School of Engineering, University College Cork, College Road, Cork, Ireland

⁴Pacific Northwest National Laboratory, Richland, WA, United States of America

⁵Photonics Laboratory, King Abdullah University of Science and Technology (KAUST), Thuwal 23955-6900, Saudi Arabia

⁶Department of Electrical and Electronic Engineering, University of Bristol, Bristol BS8 1UB, United Kingdom ^{*}gunnar.kusch@strath.ac.uk

ABSTRACT



Figure 1. Mode positions as calculated by FDTD for varying nanorod length and constant nanorod diameter. Weak modes are shown as open symbols.



Figure 2. Mode positions as calculated by the plane wave model for different rod sidelength, TE modes are shown as dotted, TM modes as full lines.



Figure 3. Nanorod geometry and input spectra used for the FDTD simulation of the nanorod. The source in the shown case is located in the apex of the nanorod representing the *c*-plane QW emission, for the modelling of the behaviour of the semipolar QWs the source was moved into the pyramidal section of the nanorod.