

Abstract Submitted  
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**Piezoelectric models for semiconductor quantum dots**<sup>1</sup> MORTEN WILLATZEN, BENNY LASSEN, DANIELLE BARETTIN, University of Southern Denmark, LOK LEW YAN VOON, Wright State University, UNIVERSITY OF SOUTHERN DENMARK COLLABORATION, WRIGHT STATE UNIVERSITY COLLABORATION — The importance of fully-coupled and semi-coupled piezoelectric models for quantum dots will be presented and compared to corresponding results for one-dimensional heterostructures. Electron energies differences of up to around 30 meV were found possible for GaN/AlN quantum dots.

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