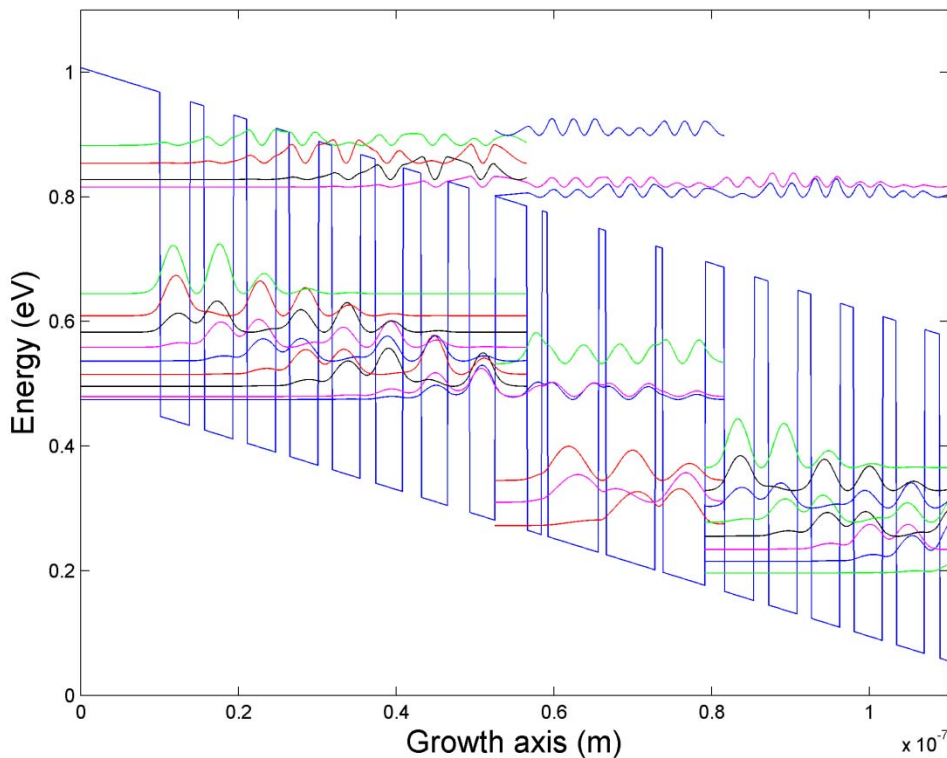




Intersubband Absorption Loss for 10.3 μm Quantum Cascade Lasers



AJ Wessels, Yamac Dikmelik, and Jacob B. Khurgin

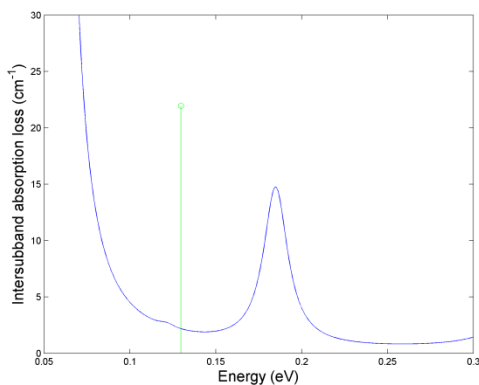


Princeton University structure

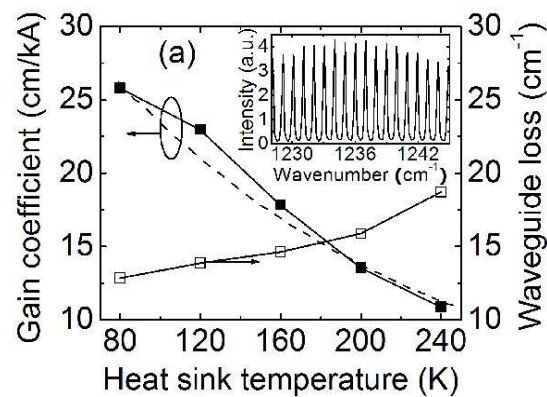




- Intersubband absorption loss is an important parameter for predicting performance



calculated results



experimental results

- Comparing experimental and calculated results helps to improve the model





Results

- Though similar to experimental results, calculated results are not completely accurate
- The model must be refined to achieve a higher degree of accuracy
- An optimized model will help in analyzing future designs before they are fabricated

