

The University of New Mexico Student Chapter of the Optical Society of America presents

CLEO Practice Talks

Temperature Dependent Performance of 1.55 μm AlGaInAs MQW Laser Diodes

Chi Yang

1.55 μm AlGaInAs multi-quantum-well lasers with varying quantum well strain and number of quantum wells are studied. Results show that high strain and more quantum wells lead to a high T_0 and high injection efficiency.

Fabrication and Characterization of a Near-IR Negative-Index Metal-Dielectric Composite Material

Shuang Zhang

We report the fabrication and characterization of a metal-dielectric composite structure exhibiting a negative refractive index in the near-IR. The first metal-dielectric negative-index metamaterial at 2 μm , a wavelength about $10^4\times$ smaller than previously reported, has been demonstrated. The refractive index, uniquely determined from the experimental results, agrees with a RCWA simulation.

Wednesday, May 18th, at 1:00 pm

Center for High Technology Materials, Room 101

A light lunch will be served.

<http://www.unm.edu/osa>