

Physics Seminar

Nanoscale thermal and acoustic dynamics probed with soft x-ray light

Dr. Mark Siemens
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**Friday
January 29
3:30pm
Ross 0220**

An understanding of thermal and acoustic transport at fundamental length and time scales is essential to continued progress in nanotechnology. We probe thermal and acoustic dynamics in laser-heated nanostructures using ultrafast soft x-ray interferometry. Using short wavelength soft x-ray light allows for high-sensitivity measurements that would be impossible using conventional optical methods. These measurements reveal new regimes of nanoscale thermal and acoustic transport, critical for future design of thermoelectrics, photovoltaics, and integrated circuits.

Questions? email: jan.chaloupka@unco.edu