UNL Department of Physics and Astronomy presents:

Atoms, molecules, and solids in intense laser pulses of short duration: Towards an understanding of electron dynamics at the ultimate time limit

PRESENTED BY

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THURSDAY

NOVEMBER 17

4:00PM

VIA ZOOM

Refreshments will be served in the JH 1st Floor Vending Area at 3:30

ABSTRACT

Electron motion is responsible for chemical bonds, and changes in structure and functionality of matter. To advance our understanding of these fundamental processes, we need to understand the attosecond motion of electrons in quantum systems. Laser light bursts can resolve the electron motion.

In the Colloquium, I introduce this research area, and I discuss some unanswered key questions that need be addressed by theory in the future.