



Thursday, December 7<sup>th</sup>, 2017 – 02:00 p.m.  
CFEL Seminar room IV (Bldg. 99)

## Eric Heller

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## Graphene Spectroscopy and Ultrafast Pump-Probe Experiments and Theory

Graphene is a key reduced dimensionality solid with many promising applications. Its spectroscopy is vital to understanding the quantum physics of graphene and to evaluate some of the potential uses of graphene. We have found that new and very different interpretations of graphene spectroscopy and ultrafast pump-probe experiments are required. This will be explained. They are very informative about the role of phonon assisted processes in solids and the role of the electronic transition matrix elements.

Host: Angel Rubio

