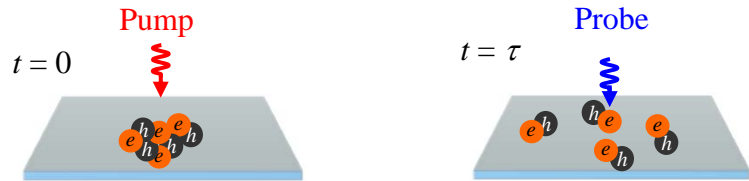


ACS PRF# 50266-DNI10: Hot carrier transport in graphene

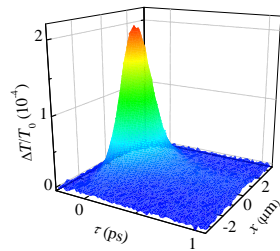
Hui Zhao, University of Kansas

Hot carrier diffusion in graphene

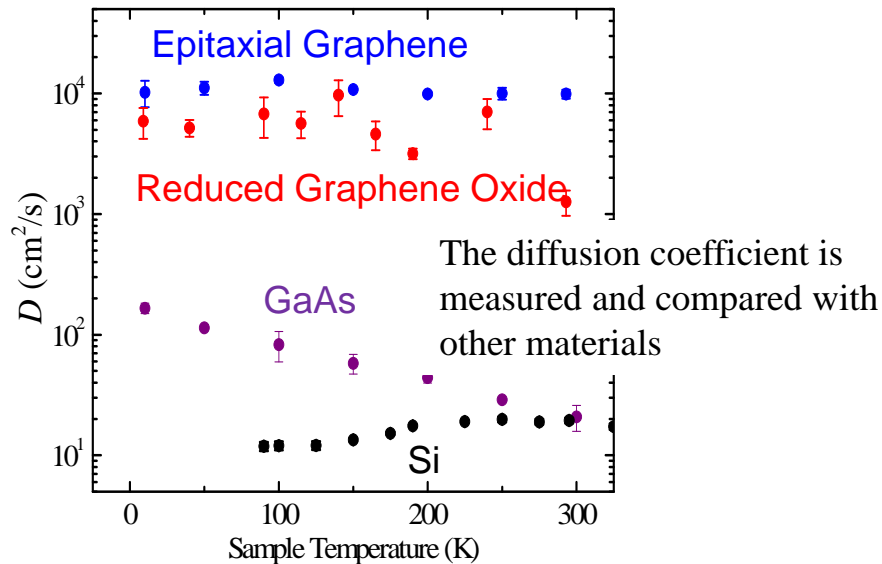


A tightly focused laser pulse excite carriers.

A delayed pulse probes the carriers.



The differential transmission of the probe pulse is measured as a function of time and space.



Energy relaxation of hot carriers

A pump pulse (blue) excite hot carriers

A probe pulse (green) measured the time when the carriers reach the energy states probed by this pulse.

Another probe pulse (red) measure the time when carrier reach the lower probing states

