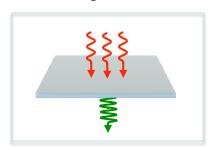
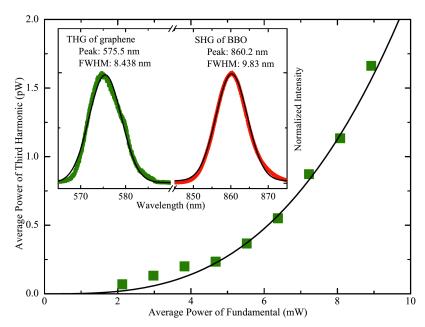
ACS PRF# 50266-DNI10: Hot carrier transport in graphene Hui Zhao, University of Kansas

Third Harmonic Generation in Graphene

In graphene, three photons combine to one





Third order nonlinear susceptibility $\sim 10^{\text{-}17}~\text{m}^2/\text{V}^2$

Carrier Dynamics in MoS₂ Films

Thin films of MoS2
One or a few atomic layers
Potential applications in
electronics, photonics

