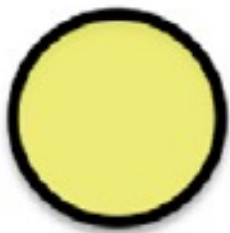
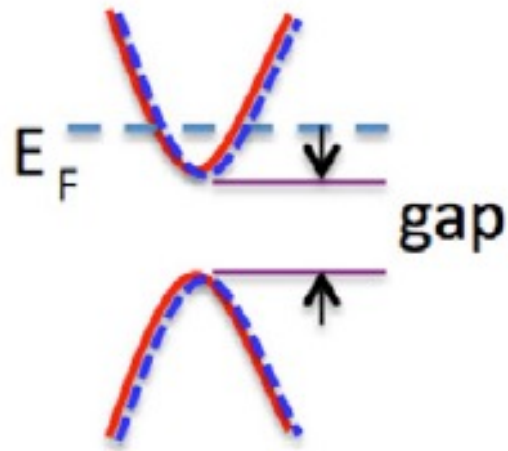




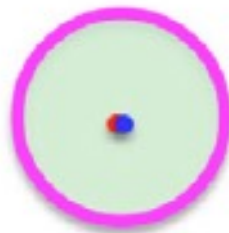
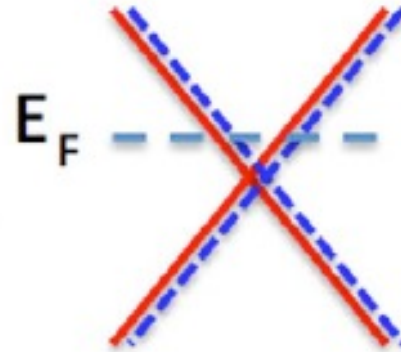
Charge Dynamics of Noncentrosymmetric, Magnetic Weyl Semimetals

Leonardo Degiorgi,
Laboratorium für Festkörperphysik,
Department of Physics, ETH Zürich, Switzerland

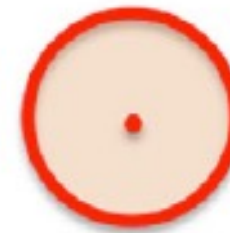
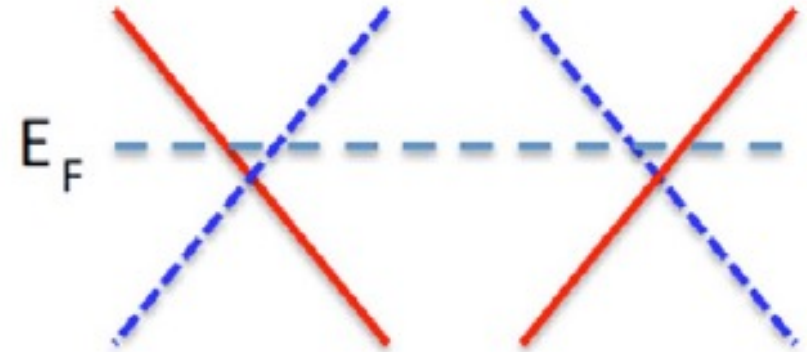
Topological Semimetals



Normal metal

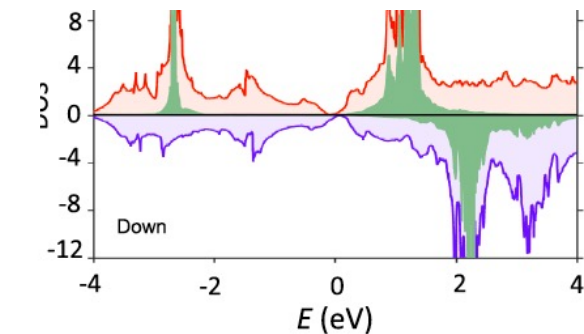
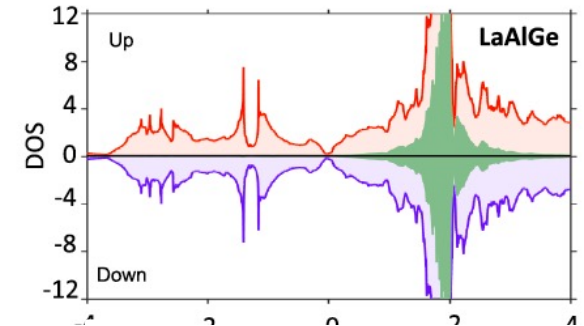
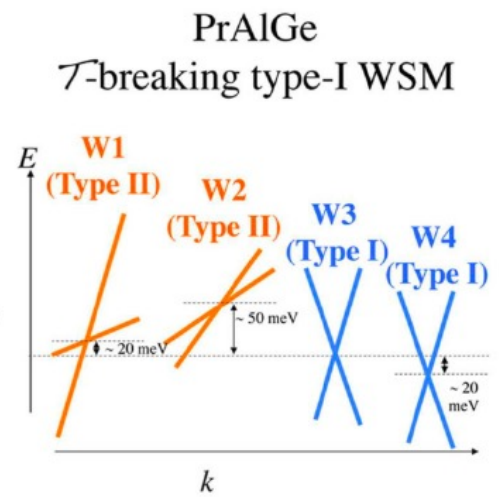
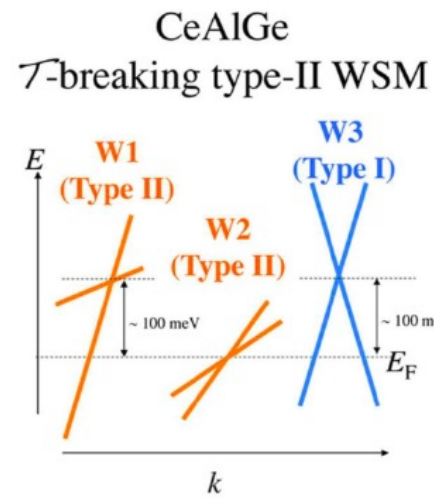
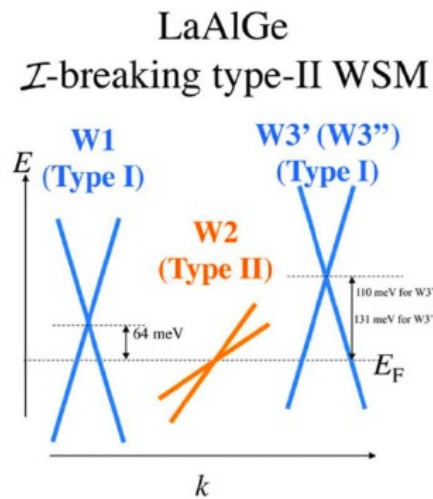
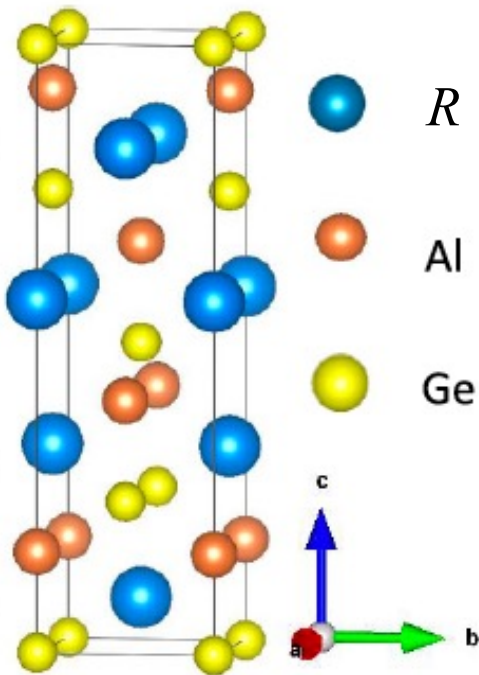


DSM

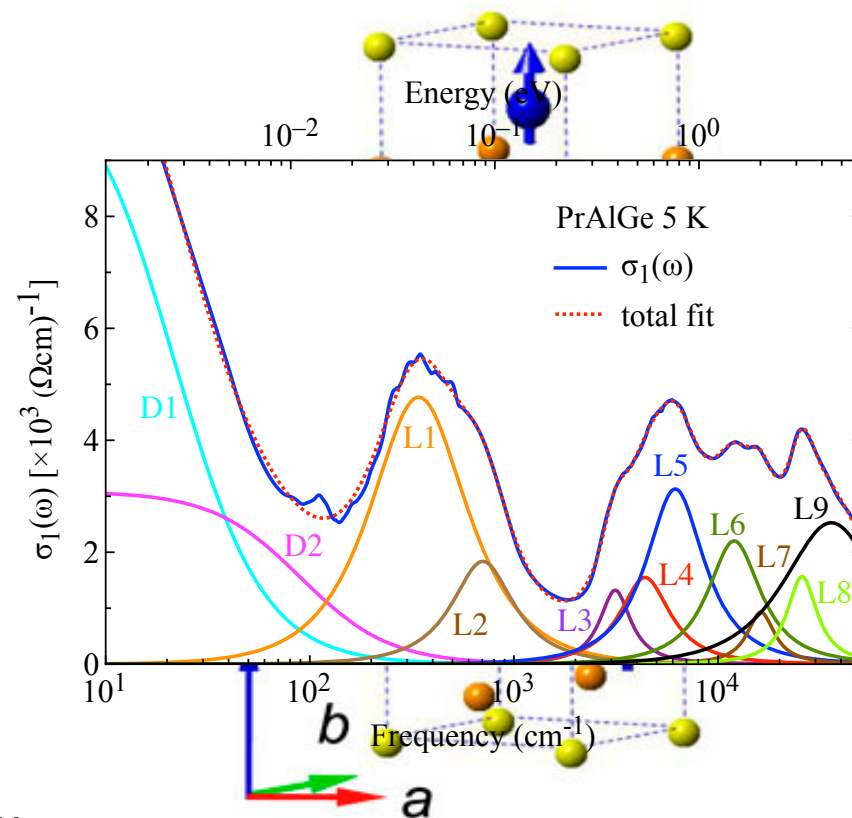
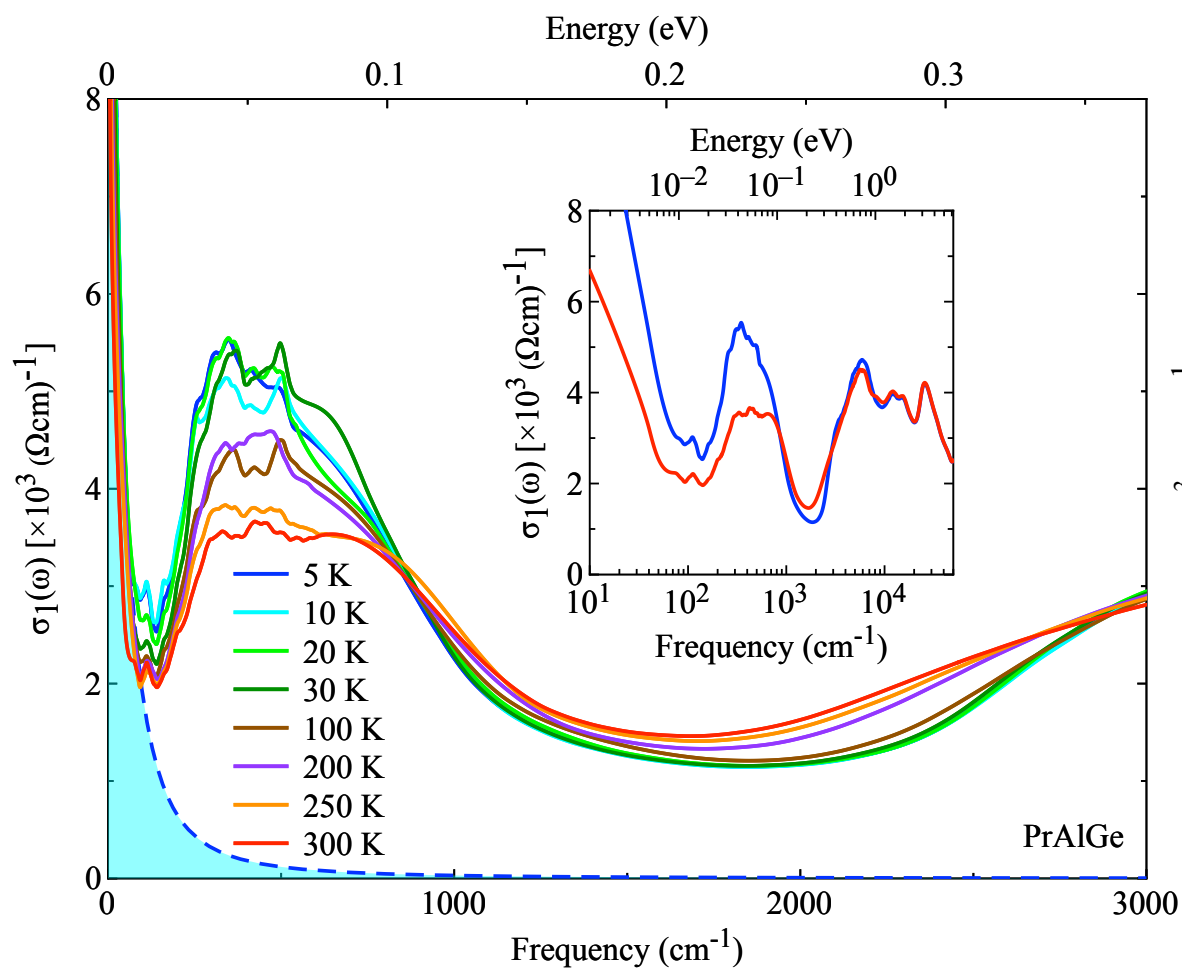


WSM

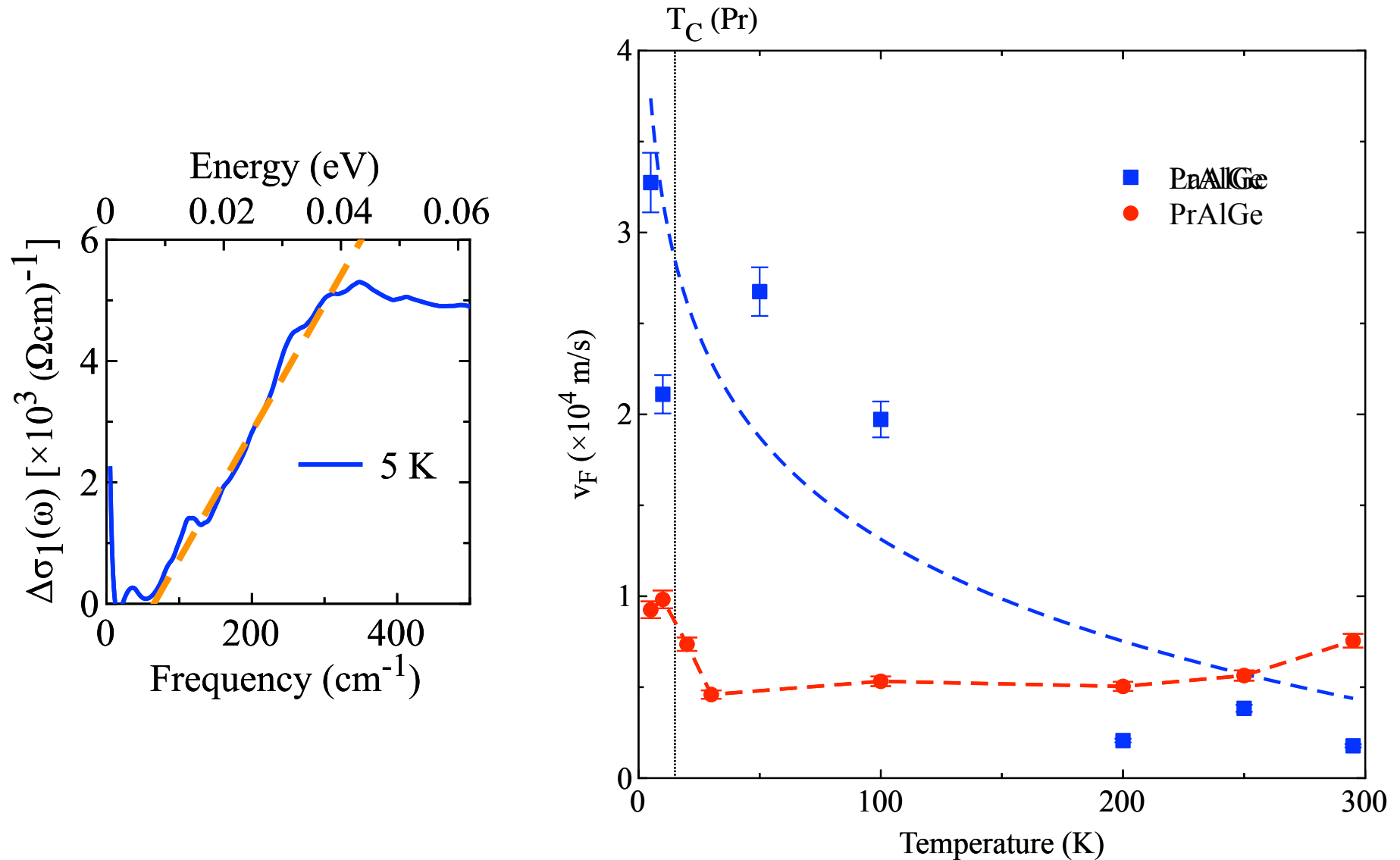
Magnetic and Noncentrosymmetric Weyl Semimetals: RAIGe ($R = \text{Rare Earth}$)



Optical Conductivity of PrAlGe

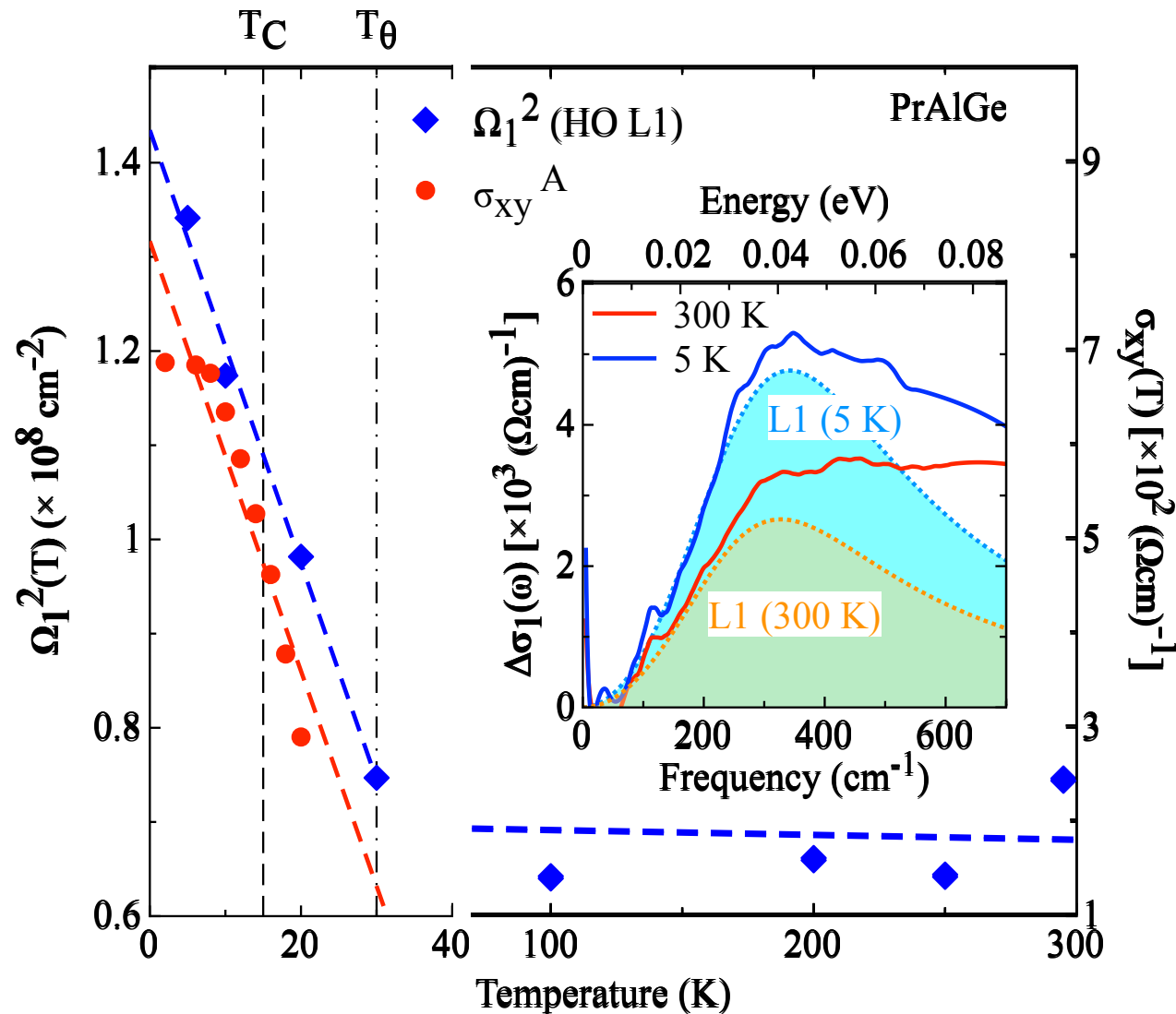


Fermi Velocity from the Optical Conductivity of PrAlGe

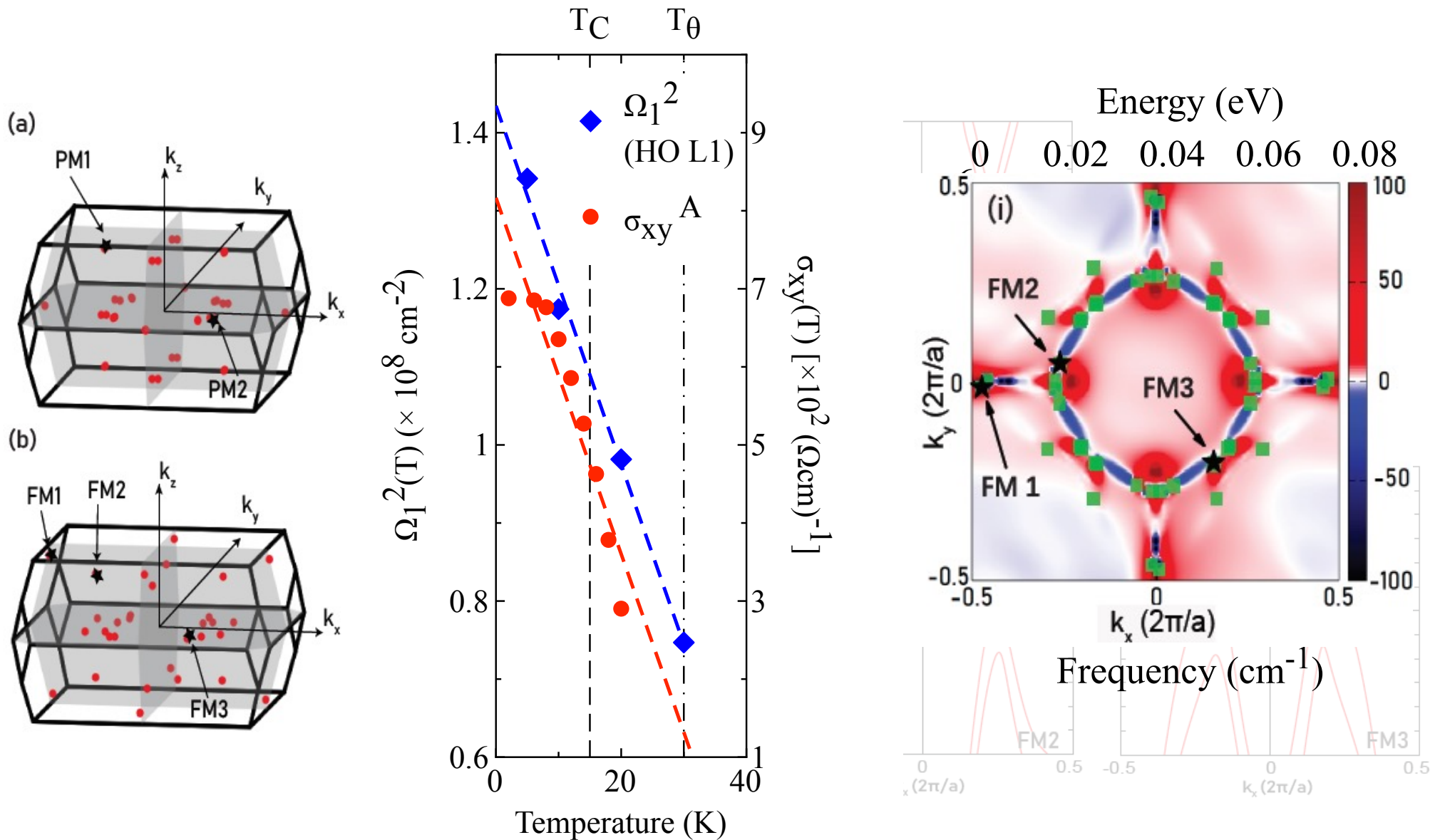


Yang et al., preprint (2022)

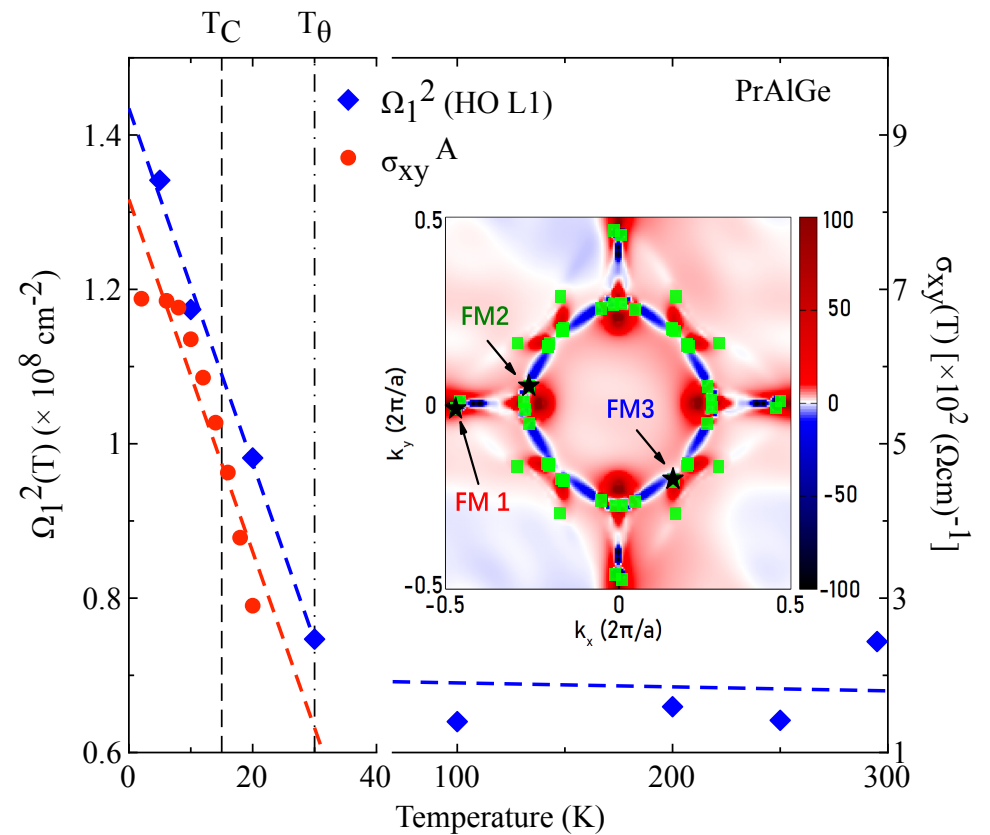
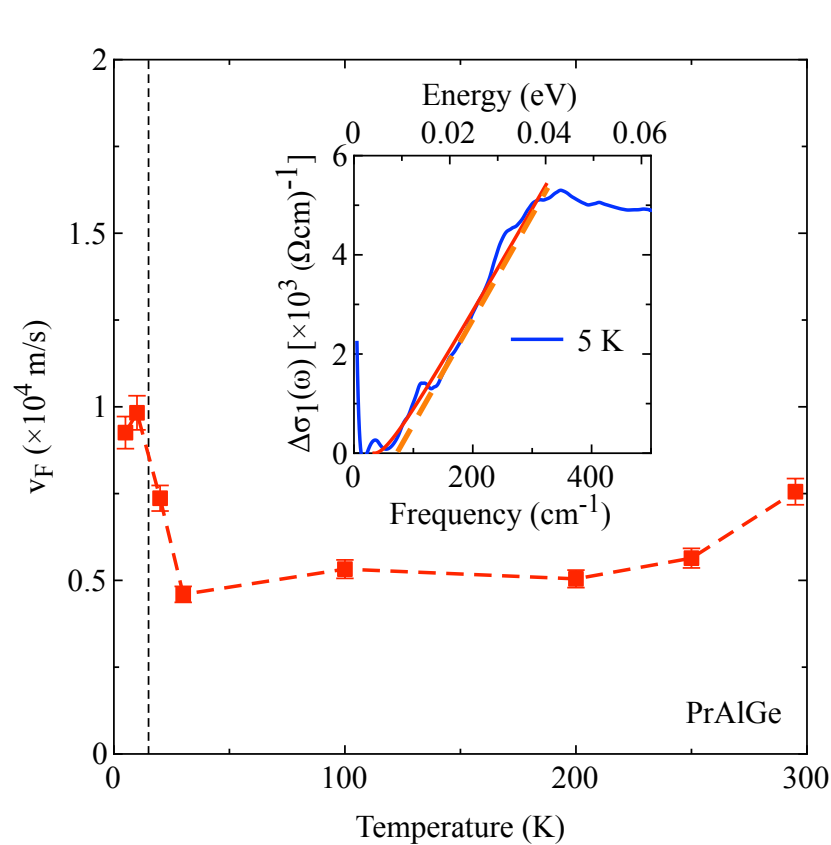
Spectral Weight of FIR Absorption versus Anomalous Hall Conductivity in PrAlGe



DFT First-Principles Calculation of PrAlGe



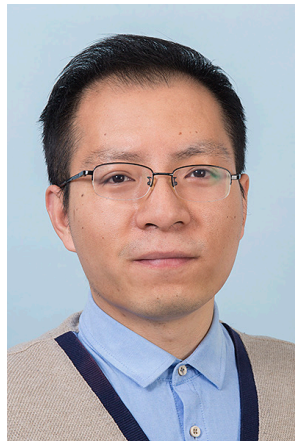
Conclusion



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