

Two updates on experiments relevant to Planckian scattering

Andy Mackenzie

Max Planck Institute for Chemical Physics of Solids, Dresden, Germany and University of St Andrews, Scotland

I will discuss the current experimental situation regarding the observation of a Planckian scattering rate in two different limits. First, I will review the rapid experimental developments in establishing low temperature phase diagrams in which observations of T -linear resistivity correlate with the appearance of $-\mathcal{T}\ln T$ in the heat capacity. In the second part of the talk I will describe recent measurements from my group on PdCrO_2 , which can be thought of as a natural heterostructure of highly itinerant electrons in Pd layers with a Kondo lattice coupling to Cr spins in directly adjacent CrO_2 layers.