



# EINLADUNG zum IFP-SEMINAR

## Enhancement of Seebeck coefficient by phonon- and magnon-drag

**Masao Ogata**

Department of Physics, University of Tokyo, Japan

Host: Ernst Bauer  
Termin: Freitag, 23. Februar 2024, 11:00 Uhr  
Ort: TU Wien, Freihausgebäude  
Wiedner Hauptstraße 8-10, 1040 Wien  
Seminarraum DC rot 07 (roter Bereich, 7. OG)

### Abstract:

We have clarified the validity of Sommerfeld-Bethe relation or Mott formula for the Seebeck coefficient using linear response theory. Based on this theory, we study microscopically the enhancement of the Seebeck coefficient by phonon- and magnon-drag in several materials. We also consider phonon-drag effects in the Nernst coefficient.