Prof. Dr. Kenneth R. Davidson (University of Waterloo)
15.45-16.45 Uhr
Title: Semicrossed products over abelian lattice semigroups
Abstract: We study semicrossed products by semigroups, and in this talk I will specialize to the case of abelian lattice ordered semigroups. For these semigroups, one can restrict attention to representations of the covariance relations which are Nica covariant, a doubly commuting condition that applies to elements with meet zero. We show that the C*-envelope of the Nica-covariant semicrossed product for injective systems on C*-algebras is a full crossed product. For the special case of $\mathbb{Z}_+^n$, we embed an arbitrary C* dynamical system into a canonical injective system. We can then deduce that the C*-envelope of the Nica-covariant semicrossed product is a full corner of a full crossed product.
This is joint work with Adam Fuller (U. Nebraska) and Evgenios Kakariadis (Ben-Gurion U.).