



## **Statistical Physics of Time-Periodic Systems: Bose Selection**

Roland Ketzmerick

What happens to the results of Statistical Mechanics if one adds time-periodic driving? The focus of the talk will be on the consequences for Bose-Einstein condensation. It will be shown that there is a nonequilibrium generalization of Bose-Einstein condensation when an ideal Bose gas is driven out of equilibrium by time-periodic driving in combination with the coupling to a heat bath. Instead of just the ground state, multiple states may be selected to acquire large occupations. The number of these Bose selected states is always odd. Further generalization to experimental systems with particle exchange will be discussed.