

Abstract des Vortrags von Oleksandr Kutovyi im Mathematischen Kolloquium am 7. Juli 2020

Title: Markov Evolutions for Interacting Particle Systems in the Continuum

We discuss the general concept of Markov statistical dynamics in continuum. For classes of spatial birth-and-death and jump models, we develop a technique for the construction of statistical dynamics. The scaling limits of the corresponding dynamics are studied and the corresponding kinetic equations for the particle densities are derived. Particular examples of such systems are considered.