

Scaling limits for Glauber--Kawasaki processes

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We discuss scaling limits for Glauber--Kawasaki dynamics. The Glauber--Kawasaki dynamics has been introduced by De Masi et al. to study a reaction-diffusion equation from a microscopic particle system. In fact, they derived a reaction-diffusion equation as a limiting equation of the density of particles. This limit is usually called hydrodynamic limit. In this talk, we focus on several scaling limits related to this hydrodynamic limit.