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Hydrodynamic limit of the Kob-Andersen model

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The Kob-Andersen model is an interacting particle system on the lattice, in which sites can contain at most one particle. Each particle is allowed to jump to an empty neighboring site only if there are sufficiently many empty sites in its neighborhood. This way, when the density is very high, many particles are unable to move, and the system slows down. In particular, the time it takes particles to diffuse, moving from high density regions to lower density ones, is very long. We will discuss the diffusion coefficient, and see how it decays as the density approaches 1.

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