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Mathematical Physics

Kawasaki dynamics in the continuum via generating functionals evolution

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(Submitted on 22 Jul 2011)

We construct the time evolution of Kawasaki dynamics for a spatial infinite particle system in terms of generating functionals. This is carried out by an Ovsjannikov-type result in a scale of Banach spaces, which leads to a local (in time) solution. An application of this approach to Vlasov-type scaling in terms of generating functionals is considered as well.

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