

Mean-Field Limits for Singular Interactions Using Modulated Energy, and its Limitations

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We consider particles whose interaction potential is singular, which is the case of the Coulomb potential. In such a situation, it is more difficult to account for the relative independence of the particles in the limit of their large number, a property known as “molecular chaos”. We will see that the modulated energy method provides a fairly robust answer to this question, and we will also see its limitations.

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