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The ideal hydrodynamic limit of a fluid with polarization using Lagrangian techniques

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After giving a brief introduction of the expected role of polarization within hydrodynamics, I will describe the difficoulties inherent in defining a hydrodynamic limit when polarization is present. I will argue that the only consistent way of surpassing these difficulties is to use lagrangian techniques, and describe progress in this direction. I conclude by illustrating the connection between polarization and dissipation.

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