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Axial kinetic equations for QED from Kadanoff-Baym equation

We derive axial kinetic equations for QED plasma based on Kadanoff-Baym equation. Elastic scatterings such as Coulomb and Compton scatterings are described through self-energy and vertex corrections. We also discuss on-going efforts in including inelastic scatterings. The resulting axial kinetic equations provide a consistent framework for the spin dynamics at leading order in coupling.

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