

## The correlation functions of relaxation time approximation thoery with global current

*Saturday 2 August 2025 11:15 (20 minutes)*

In this work, we extract the correlation functions of relaxation time approximation theory with global current. The physical system is supposed to be equilibrium before the perturbation imposed to the system. Employing the analytical scheme developed by Paul Rotmasche, we figure out the correlation functions of RTA theory with global current. The discussion of the results is focused on the analytical structure of these retarded correlation functions.

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