

Thermoelectric transport in three-terminal junctions

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Heat and charge currents through a junction bridging two electronic baths (of possibly different temperatures and different chemical potentials), and coupled to a third *thermal* terminal are considered. The role of *inelastic* processes between the charge carriers and the thermal terminal is emphasized. The main idea is to try and force electrons transported through the junction (e.g., a molecular bridge) to take relatively large energy from the thermal bath and deliver it to another bath or to an electronic reservoir, as a heat or a charge current, attempting to achieve a significant figure of merit for the process.
