

THE BATSHEVA DE ROTHSCHILD SEMINAR ON TOPOLOGY MEETS DISORDER AND INTERACTIONS: **PRESENT CHALLENGES, FUTURE PROMISES**  27-31 MAY, 2018

**RAMON INN** MITZPE RAMON

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## The Hall Number of Strongly Interacting, Disordered Metals

Assa Auerbach

An exact formula for the temperature dependent Hall number of metals is derived. This DC transport coefficient is proven to (remarkably) depend solely on equilibrium susceptibilities, which are more amenable to numerical algorithms than the conductivity.