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A menagerie of non-relativistic physics

Tuesday, 14 April 2015 11:20 (30 minutes)

Spacetime symmetries lead to non-perturbative constraints on transport, like the Einstein relation between electric and thermal conductivity. I will discuss some recent progress in the understanding of the spacetime symmetries of non-relativistic systems, like the quantum and anomalous Hall effects, as well as the corresponding implications for transport. Unexpectedly, these results also shed light on so-called warped CFTs in two dimensions—a sort of chiral, non-Lorentz-invariant (and so non-relativistic) CFT—which are motivated by string theory but have remained mysterious.

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