

25th Rencontres Itzykson - Many Body Chaos, Scrambling and
Thermalization in Interacting Quantum Systems



ID de Contribution: 33

Type: **Non spécifié**

Strange metals and the time reparameterization soft mode

jeudi 3 juin 2021 16:00 (40 minutes)

A strange metal has a resistivity which is smaller than h/e^2 , with a linear dependence on temperature at low temperatures. I will describe recent progress in realizing such metals in theoretical models. Numerical studies of a random t-J model show strange metal behavior - I will argue that this is connected to a time reparameterization Schwarzian mode, similar to that found in the SYK model. This same mode has been connected in earlier work by others to maximal chaos.

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