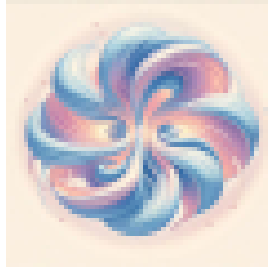


The 8th International Conference on Chirality, Vorticity and Magnetic Field in Quantum Matter



ID de Contribution: 76

Type: **Invited Talk**

Transport properties from quantum kinetic theory

vendredi 26 juillet 2024 09:45 (45 minutes)

Quantum kinetic theory, arising as a semiclassical limit of quantum field theory, is an effective microscopic description applicable to a wide variety of systems.

I present an introduction to the topic and discuss important developments, such as the application of quantum kinetic theory to systems of particles with nonvanishing spin, leading to intriguing transport phenomena relevant to the study of the Quark-Gluon Plasma (QGP).

In particular, emphasis is put on the connection of a quantum-kinetic approach to polarization-related phenomena in heavy-ion collisions.

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Classification de Session: Plenary