

## **Deterministic solvers for the Boltzmann equation**

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We will discuss two type of deterministic solvers: a conservative spectral scheme in a broad set of applications, ranging from dissipative interactions, to mixtures and grazing collision limits for Coulombic potentials. Error estimates for the elastic theory of hard potentials will be presented.

We will also present a Discontinuous Galerkin scheme for calculations of the spectral gap of the linearized Boltzmann equation