## Simulations of Dense Plasmas without Pseudopotentials

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Simulations of dense plasmas provide material data like equation of state and transport properties. These are used in multi-physics simulations, for example, in inertial confinement fusion or in White Dwarf models. In dense plasmas, density and temperature effects are strong and the often used pseudpotential approximation, where core states are frozen, becomes questionable or difficult to apply. In this talk I will discuss recent advances in pseudo-potential free simulations, with application to equation of state calculations.

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