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This lecture gives an introduction to numerical methods for the investigation of quantum many-particle systems. The focus is on models of strongly correlated electron systems (Hubbard model,

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single-impurity Anderson model) and quantum spin models (Heisenberg model, Kitaev model). The physical phenomena (Mott transitions, Kondo physics, spin liquid physics, etc.) these models are supposed to describe,

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systems from first
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contribution is that we
define the effective zero-
point energy of an
interacting system in terms

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of fluctuations of momentum and the Coulomb electric field. An uncertainty equation can be derived, relating the interaction energy in terms of the kinetic energy and local charge density.

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[2010.01656] Energy of many-
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Vast majority of plasma

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Particle Physics is contained in the Vlasov-Maxwell equations that describes the evolution of a particle distribution $f_s(t, \mathbf{x}, \mathbf{v})$ function in 6D phase-space. The particles move in electromagnetic fields that

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Particle Physics
come from two sources: (i) external coils and electrodes, and (ii) fields generated by the motion of the particles themselves.

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