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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, 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, are quite often out of the reach of analytical techniques - this triggered the development ...

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We derive a functional form for the energy of interacting many-particle systems from first principles. Our main contribution is that we define the effective zero-point energy of an interacting system in terms 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.

[\[2010.01656\] Energy of many-particle quantum states](#)

Computational physics is the study and implementation of numerical analysis to solve problems in physics for which a quantitative theory already exists. Historically, computational physics was the first application of modern computers in science, and is now a subset of computational science. It is sometimes regarded as a subdiscipline of theoretical physics, but others consider it an intermediate branch between theoretical and experimental physics - an area of study which supplements both theory

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Vast majority of plasma physics is contained in the Vlasov-Maxwell equations that describes the evolution of a particle distribution $(f_{\mathbf{s}}(t, \mathbf{mathbf{x}}, \mathbf{mathbf{v}}))$ function in 6D phase-space. The particles move in electromagnetic fields that come from two sources: (i) external coils and electrodes, and (ii) fields generated by the motion of the particles themselves.

[Computational Methods in Plasma Physics 2020 — CMPP 2020.8 ...](#)

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Assuming no prior knowledge of plasma physics or numerical methods, Computational Methods in Plasma Physics covers the computational mathematics and techniques needed to simulate magnetically confined plasmas in modern magnetic fusion experiments and future magnetic fusion reactors. Largely self-contained, the text presents the basic concepts neces

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