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A many-body approach to nuclear structure and astrophysics

Tuesday, 4 September 2012 12:00 (30 minutes)

In this talk I will discuss both finite and infinite systems. The physical settings will range from heavy nuclei, to neutron stars, and down to ultracold atomic gases. More specifically, I intend to talk about quantum many-body theory in various forms, most notably energy-density functionals and microscopic Monte Carlo simulations on modern supercomputers. Touching upon many theoretical methods, I will attempt to show the unifying thread: experimental evidence that constrains both terrestrial and astrophysical systems.

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