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Metal-Insulator Transition in Low Density Atomic Hydrogen[1] JEREMY MCMINIS, University of Illinois, JEONGNIM KIM, Oak Ridge National Lab, DAVID CEPERLEY, University of Illinois — At low density BCC hydrogen undergoes a metal-insulator transition. We compute the zero temperature equation of state for the paramagnetic and anti-ferromagnetic phases using diffusion Quantum Monte Carlo. We predict the phase transition density, investigate the shape of the anti-ferromagnetic curve, and compare to previous results

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