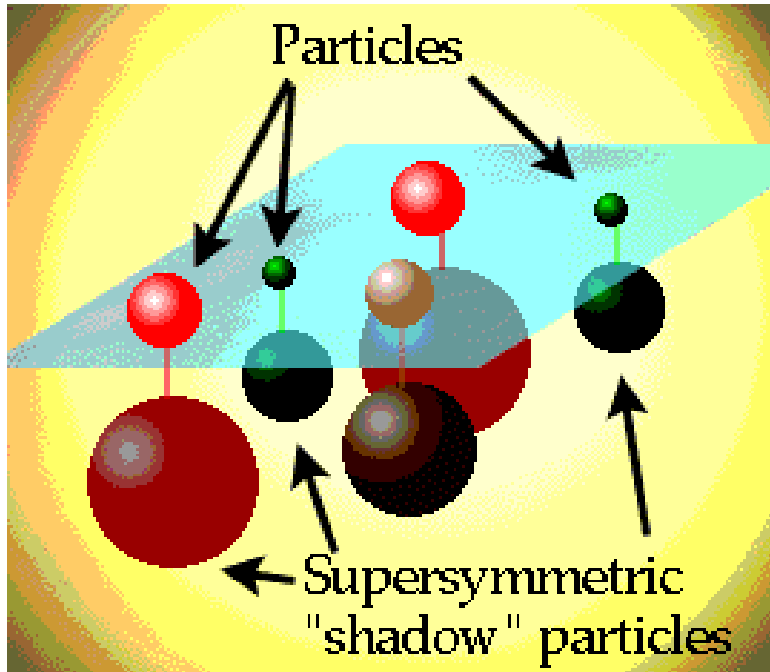




COLLOQUIUM



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Studying the thermal properties of the large- N_c bound state spectrum of two dimensional supersymmetric gauge field theory, using SDLCQ

Abstract

I present recent results, obtained by employing the numerical technique of “Supersymmetric Discretized Light Cone Quantization” (SDLCQ), regarding the thermodynamic properties of the (large- N_c) bound state spectrum of 2+1 super Yang-Mills (SYM) theory. Results for both pure-SYM and super-QCD/Chern-Simons sectors will be discussed. In addition, I will present for the first time how SDLCQ procedure can be utilized in order to provide a direct basis for testing AdS/CFT (or string/gauge duality) using the corresponding super-QCD Lagrangian derived from D3-D7-branes. I will also include a brief introduction on Supersymmetry and the Light Cone quantization technique.

3-4 p.m., Friday, January 25th
McLane Hall 162