2014年度夏学期 第7回 駒場物性セミナー

Entanglement perturbation theory: idea, success and challenge

講師　Prof. Sung G Chung(Western Michigan University)
日時　2014年6月20日(金) 午後4時30分
場所　16号館827

Strong correlation has been an important key word in condensed matter physics and related fields. The so-called mean-field-theories qualitatively fail in such strongly correlated systems, and one resorts to methods such as numerical simulation, Monte Carlo and numerical renormalization group. The former two have a limitation in the system size while in the last the Hilbert space is systematically truncated to handle a macroscopic system. The numerical-RG has thus attracted much attention with significant success in physics, chemistry and other science fields, but its apparent lack of accuracy in two space dimensions has become clear over the last two decades. In this talk, I will introduce entanglement perturbation theory (EPT) as a novel, purely algebraic and non-RG many-body method. I will discuss its basic idea, progress so far, and its future prospect.

夏学期の物性セミナーの予定は下記のWEBページで公開しております.

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7月25日	香取真理 氏 (中央大学理工学部)
8月1日	多辺由佳氏 (早稲田大学先進理工学部)

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