

— 第915回九大原子核セミナー —

講師： I-O. Stamatescu (Heidelberg)

演題： Approaching finite density QCD using Complex Langevin Simulation

日時： 1月29日(水) 16:00～

† 今回は通常と曜日が異なりますのでご注意ください

場所： 理学部 物理大学院講義室 (理学部2号館2階2263室)

概要

We first study the complex Langevin equation (CLE) method on simple, soluble cases used as paradigms and as effective models to understand its features. We extend the analysis to lattice models with complex action and non-trivial phase structure. We set up the procedure of "gauge cooling" to stabilize the process and apply the CLE method to study HQCD, a full QCD-approximation with non-zero density of heavy quarks. We test the capability of the method to answer questions of direct physical interest. We finally approach full QCD with staggered fermions at non-zero chemical potential and small temperature.

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