

Quantum Space-Time Seminar Series

On heavy quark systems in quark-gluon plasma

Saumen Datta (DTP, TIFR)

Date: April 24th, 2017 Time: 11.30 am Venue: A-304, TIFR



High energy heavy ion collisions explore the high temperature deconfined ("quark-gluon plasma") phase of QCD. Heavy quark observables provide a very interesting probe of the plasma. Theoretically, the large mass of the quark leads to simplifications, which allow quantitative study of some observables even in the strongly coupled plasma. I will discuss some non-perturbative investigations into heavy quark observables. In particular, I will discuss $\overline{b}b$ bound states in the plasma, and energy loss of heavy quarks.