Contribution ID: **73**

Type: **not specified**

Theta dependence of 4D SU(N) gauge theories at finite temperature

Wednesday, 19 February 2014 16:15 (30 minutes)

The dependence of 4D SU(N) gauge theories on the topological theta term is investigated at finite temperature, and in particular in the large-N limit. General arguments and numerical analyses exploiting the lattice formulation show that it drastically changes across the deconfinement transition. The low-T phase is characterized by a large-N scaling with theta/N as relevant variable, while in the high-T phase the scaling variable is just theta and the free energy is essentially determined by the instanton-gas approximation.

Presenter: Prof. VICARI, ettore (physics department, university of Pisa)