



Contribution ID: 369

Type: **Talk**

## Chiral transition as Anderson transition

*Wednesday, 25 June 2014 10:20 (20 minutes)*

At low temperature the low-lying QCD Dirac spectrum obeys random matrix statistics. Recently we found that above  $T_c$  the lowest part of the spectrum consists of localized modes that obey Poisson statistics. An interesting implication of this is that as the system crosses  $T_c$  from above, the spectral statistics at  $\lambda = 0$  changes from Poisson to random matrix. Here we study this transition and its possible implications for the finite temperature transition of QCD-like theories.

**Primary authors:** Dr PITTLER, Ferenc (Eotvos Lorand University); Dr GIORDANO, Matteo (Institute for Nuclear Research (ATOMKI), Debrecen); Dr KATZ, Sándor (Eotvos Lorand University (Budapest)); Dr KOVÁCS, Tamás György (Institute for Nuclear Research ATOMKI (Debrecen))

**Presenter:** Dr PITTLER, Ferenc (Eotvos Lorand University)

**Session Classification:** Nonzero temperature and Density

**Track Classification:** Nonzero Temperature and Density