

Multi-Flux-Tube representation of dual QCD Vacuum

To explore the typical non-perturbative structure of QCD vacuum, a dual version of color gauge theory has been analysed. The QCD vacuum, in physically accessible near infrared sector has been shown to endowed with a multi-flux-tube system. Using the first principle, the flux tube energy in the asymptomatic limit has been computed at various couplings. Consequently, the interaction among microscopic color flux-tubes has been shown to reveal their possible role in the low energy phenomenon of QCD vacuum.

Author: Dr RAWAT, Deependra Singh (Graphic Era Hill University, Bhimtal Campus, Sattal Road, Nainital, INDIA)

Co-authors: Dr YADAV, Dinesh (Govt. Polytechnic College, Bareilly, India.); Dr SARASWAT, Kapil (Department of Physics, School of Engineering, Dayananda Sagar University, Devarakaggalahalli, Harohalli, Kanakapura Road, Bengaluru South Dt. -562 112, India.); CHANDOLA, Harish (Kumaun University)

Presenter: Dr RAWAT, Deependra Singh (Graphic Era Hill University, Bhimtal Campus, Sattal Road, Nainital, INDIA)