XIII Mexican School of Particles and Fields



Contribution ID : 104

Type : not specified

Baryons from quarks in color gauge space of constant positive curvature and deconfinement

Thursday, 9 October 2008 17:10 (0:50)

Abstract content

Detailed account is given of the fact that the Cornell potential predicted by Lattice QCD and its recently reported exactly solvable extension to a trigonometric quark confinement potential can be placed within the context of a Coulomb-type potential in color gauge space of constant positive curvature, the 3D hypersphere. We make the case that the geometric vision on confinement provides a remarkably adequate description within a quark potential model picture of both nucleon spectrum and proton mean square charge radius and moreover opens a new venue toward quark deconfinement as curvature shut-down.

Summary

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 Session Classification : Non-Perturbative QFT