

XVth Quark Confinement and the Hadron Spectrum



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Interacting p-form gauge theories: New developments

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Gauge p -forms in diverse dimensions naturally occur in supergravity and string theory. This talk will review new formulations for interacting gauge p -form theories in $d = 2p + 2$ space-time dimensions. For odd p , such theories possess $U(1)$ duality invariance and include the Born-Infeld action as a well-known representative. For even p , each theory describes a self-interacting chiral boson with a self-dual field strength. In the four-dimensional case, an important example is a low-energy effective action for the $N = 4$ supersymmetric Yang-Mills theory on its Coulomb branch where the gauge group $SU(n)$ is spontaneously broken to $SU(n-1) \times U(1)$ and the dynamics is described by a single $N = 2$ this effective action will be briefly discussed.

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