# Large N Gauge Theory and k-Strings



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## Reviews

This publication is wonderful. It is amongst the most remarkable pdf i have got read. Its been written in an exceptionally basic way and it is merely after i finished reading through this pdf in which really transformed me, alter the way i really believe. (Shayne Schneider)

## LARGE N GAUGE THEORY AND K-STRINGS



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Phase Transition of k-strings on 2D lattice | This is my master thesis in theoretical high energy physics. I finished this work with my supervisor Prof.Semenoff and Dr.Karczmarek. We worked on Gross-Witten model in  $Large\ N\ gauge\ theory\ under\ t\ Hooft\ limit.\ I\ focus\ on\ the\ k-representation\ of\ the\ SU(N)\ gauge\ group\ in\ 2-dimensional\ lattice,\ where\ k\ means\ the\ property is a support of\ the\ SU(N)\ gauge\ group\ in\ 2-dimensional\ lattice,\ where\ k\ means\ the\ property is a support of\ the\ SU(N)\ gauge\ group\ in\ 2-dimensional\ lattice,\ where\ k\ means\ the\ property\ is a support of\ the\ support\ is a support\ is\ suppor$ number of quarks. Our goal is to further understand quark confinement in Large N Quantum Chromodynamics(QCD) model. Prof. Semenoff derived the Action for the k-symmetric representation using the Saddle-Point Approximation. I further derived the Action of the k-exterior representation and we found an interesting phase transition from de-confined phase to confined phase when the number k changes. In Gross-Witten model, there is a phase transition as the coupling constant changes. In our study, both the coupling constant and the k-number give the whole phase transition diagram.  $| \ \, \text{Format: Paperback} \, | \ \, \text{Language/Sprache: english} \, | \ \, \text{60 pp.}$ 





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