



Contribution ID: 97

Type: **not specified**

Various corners of QCD and 2 color QCD phase diagrams

Phase structure of dense quark matter with chiral and isospin imbalance is considered in the framework of effective models. There has been considered as two color as well as three color QCD. It was shown that chiral imbalance has several rather peculiar properties such as being universal catalyzer, i. e. it catalyzes all the considered symmetry breaking patterns in the system, including the diquark condensation phenomenon (color superconductivity). Duality properties found earlier have been considered in this case.

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Session Classification: Section B

Track Classification: Section B: Quantum field theory methods in elementary particle physics