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Order of the color superconducting phase transition

Using the functional renormalization group method, I will discuss the order of the color superconducting phase transition. The Ginzburg-Landau theory of color superconductivity will be compared to that of ordinary superconductivity, and it will be argued that while the latter model allows for both first and second order transitions, gluonic fluctuation effects are more dominant than that of the photon, and thus in the former theory only first order transition is a legitimate possibility.

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