

M. Mannarelli: *Ultracold color superconductors*

We discuss the properties of various color superconductors which may be realized in the interior of compact stars. The low energy properties of some of these phases are characterized by the presence of Nambu-Goldstone bosons; we derive the low energy effective action for these modes in the color flavor locked phase and in the crystalline color superconducting phase of QCD. Their relevance for the evolution of compact stars is briefly outlined.