

The Modern Physics of Compact Stars and Relativistic Gravity

18-21 Sept. 2013, Yerevan, Armenia



Contribution ID: 22

Type: **not specified**

Time-dependent Ginzburg-Landau Equations for Rotating Two-flavor Color Superconductors

We discuss a time-dependent generalization of the stationary theory for the two-flavor color superconducting quark matter and its modification in the presence of rotation. General expressions are obtained for the relaxation time-scales of the order parameter and color-magnetic fields and for dissipative function, which obtains contribution from the relaxation of the order parameter and Ohmic dissipation. We also obtain a stationary equation that governs the penetration of the color-electric field in the color superconductor.

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