

Finite Isospin Chiral Perturbation Theory in a Uniform Magnetic Field

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In this talk, I will discuss the zero-temperature phase diagram of finite isospin chiral perturbation theory in a uniform, external magnetic field. Since pions enter a superfluid state for chemical potentials larger than the pion mass and are electromagnetically charged, they become superconducting in the presence of a magnetic field. They exhibit type-II superconductivity and support stable magnetic vortices.

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