

## Strangeness, Gravitational waves and neutron stars



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## Cold asymmetric quark matter

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Asymmetric matter having nonvanishing isospin and/or strangeness chemical potential can be studied by different methods. For asymptotic values of the chemical potentials, perturbative QCD methods and future lattice QCD simulation may have significant overlap. For non-extreme values of the asymmetry, chiPT, lattice QCD simulations and NJL-like models can be used. The meson condensed phases will be examined focusing on the interplay between chiPT methods and lattice QCD simulations. The possible BEC-BCS crossover will be discussed by a simple thermodynamic analysis.

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