Nuclear symmetry energy in the Brueckner-Hartree-Fock approach

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We present results for the EOS and symmetry energy of nuclear matter in the Brueckner-Hartree-Fock approach, including the effect of microscopic nuclear three-body forces, which are determined in a consistent manner with the underlying two-nucleon potential. The results are confronted with constraints from heavy-ion collision data, and employed for neutron star structure calculations.

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