

ASYMMETRIC NUCLEAR MATTER USING SKYRME POTENTIAL

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S u m m a r y

The binding energy, symmetry energy, pressure, incompressibility, and the velocity of sound are calculated for the asymmetric nuclear matter using the Skyrme interaction. The behavior of these physical quantities is studied for different values of the asymmetry parameter α_τ , the density ρ , and the temperature T . A good agreement is obtained in comparison with the previous theoretical estimates.