CALCULATION OF SEYLER-BLANCHARD PARAMETERS

The Seyler-Blanchard (SB) effective interaction has been commonly employed to obtain the fundamental properties of nuclear matter and the equation of state. The Seyler-Blanchard nucleon-nucleon (NN) effective interaction consists of an attractive Yukawa function multiplied by a quadratic momentum-dependent term. This interaction leads to the nuclear matter Equation of State.

In this study, the Seyler-Blanchard parameters α, β and γ are obtained from Variational Monte Carlo (VMC) calculations. The obtained parameters used in binding energy to obtain the equation of state of nuclear matter.

Consent

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Session Classification: Poster Session

Track Classification: Hot and Dense Nuclear Matter