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## Nuclear Matter Bulk Parameter Correlations from a Nonrelativistic Solvable Approach and Beyond

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A nonrelativistic (NR) limit of a Point-Coupling version of a Relativistic Mean-Field (RMF) is constructed to investigate nuclear matter properties. This limit allows for nuclear matter bulk parameter analytical expressions. Correlations between many-nucleon bulk parameters as nuclear matter symmetry energy, its slope, and curvature are presented from this nonrelativistic solvable approach. This study is extended to investigate the correlation between the nuclear matter incompressibility and the its skewness parameter. Exact RMF results, without the NR limit, support the NR proposed correlations. (In collaboration with B. M. Santos, M. Dutra and O. Lourenço)

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