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Reconstruction of nuclear matter parameters in a Bayesian approach

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The posterior distributions of nuclear matter properties are reconstructed using a Bayesian technique from
the EoS of neutron star matter. Appropriate prior distributions are chosen to put constraints on lower-order
parameters as imposed by the finite nuclei observables. The calculations are performed on two sets of pseudo
data on the EoS whose real models are known. The accompanying uncertainties are also greater and the median
values of second or higher order NMPs exhibit considerable deviation from their true values. The sources of
these inherent uncertainties are discussed.

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