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Bayesian inference of the dense matter equation of state built within mean field models

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In the last years Bayesian techniques are employed more and more frequently to build equations of state of dense neutron rich matter by imposing various sets of constraints on functional relations derived within models with different degrees of sophistication and physical underpinning. In this talk I shall confront the results obtained when the same constraints are imposed to models of equation of state generated within the non-relativistic mean field model with Skyrme interactions and the covariant density functional theory with density dependent couplings.

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