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Chiral three-nucleon forces up to N4LO

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Three-nucleon forces play very important role in few and many-body simulations of nuclei/nuclear reactions at low energy. Knowledge of their precise form might lead to resolution of long standing puzzles in few-nucleon physics (e.g. A_y -puzzle in elastic nucleon deuteron scattering). Chiral effective field theory provides a systematically improvable tool for their calculation. By now three-nucleon forces have been calculated up to N3LO (partly up to N4LO) in chiral expansion. In my talk I will discuss the current status of their construction and their ongoing implementation in few-body calculations

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