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Nonlinear gauge fixing for FeynArts

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Nonlinear gauge fixing is used for checking the internal consistencies of automated calculations. We implement the nonlinear gauge fixing, as proposed by Boudjema and Chopin, into FeynArts. We have to modify not only the model files, but also the Lorentz.gen file, as the nonlinear gauge fixing introduces terms that are not contained in the standard form for the vertices. We check our modifications by checking amplitudes analytically and by performing tree level and one loop calculations.

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