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Pion photo- and electro-production and the chiral MAID interface

Wednesday, July 1, 2015 10:05 AM (40 minutes)

We discuss the extended on-mass-shell scheme for manifestly Lorentz-invariant baryon chiral perturbation theory. We present a calculation of pion photo- and electro-production up to and including order q^4 . The low-energy constants have been fixed by fitting experimental data in all available reaction channels. Our results can be accessed via a web interface, the so-called chiral MAID (<http://www.kph.uni-mainz.de/MAID/chiralmaid>, see the attached Figure). We explain how our program works and how it can be used for further analysis.

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