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## The six-pion amplitude

Monday 22 November 2021 16:00 (15 minutes)

Within the framework of the massive O(N) nonlinear sigma model extended to the next-to-leading order in the chiral counting (for N = 3 corresponding to the two(-quark)-flavor Chiral Perturbation Theory), we calculate the relativistic six-pion scattering amplitude at low energy up to and including terms  $\mathcal{O}(p^4)$ . Results for the pion mass, decay constant and the four-pion amplitude in the case of N (meson) flavors at  $\mathcal{O}(p^4)$  will be also presented.

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