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Threshold cusp structures in multi-channel scattering

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Near-threshold exotic hadrons are studied actively. In order to understand the nature of them, it is necessary to determine the scattering length from experimental data, because the scattering length governs the near-threshold scatterings. The cusp structure of cross sections reflects the value of the scattering length. In this work, we study the behavior of threshold cusp in multi-channel scattering using the general scattering amplitude near the threshold[1].

[1] K. Sone and T. Hyodo, arXiv:2405.08436 [hep-ph].

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