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Addressing the pΩ femtoscopy correlation function using baryon-baryon effective potentials

Monday, 8 July 2024 11:00 (30 minutes)

We have generated an updated version of the pΩ potential for low-energy interactions based on an effective field theory approach at leading order. This potential, together with other potentials based either on different parametrizations or lattice QCD, have been used to solve the Schrödinger equation numerically, obtaining the scattering wave functions for different values of the relative momentum. Using these wave functions, we have computed the pΩ femtoscopic correlation functions, comparing the results with those published by the ALICE collaboration.

session

E. Hadron and Nuclear Interactions

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