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Barrelet Zeros Extraction in Pion-Nucleon Scattering

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

A Monte-Carlo simulator has been designed to generate events of a proton-pion scattering employing a realistic model based on the unified Chew-Mandelstam SAID parametrization. Using the generated data, a partial wave analysis of the final state of the system is performed. The energy dependent partial-wave amplitudes are derived analytically using Barrelet zeros of the moments. This study also discusses the existence of ambiguous solutions, phase uncertainty and maximum angular momentum considered in the data analysis.

session

B. Hadron Spectroscopy

Primary author: CAMPOS, Marta Co-author: MATHIEU, Vincent (UB) Presenter: CAMPOS, Marta Session Classification: Poster session