

Phenomenological Aspects of the Eikonal Zero in the Momentum Transfer Space

Recent model-independent analyses of pp elastic scattering have indicated evidence of an eikonal zero (change of sign) in the momentum transfer space. In this communication, we investigate the consequences of this zero in the description of the differential cross section data, showing that it plays a central role in the reproduction of the dip region and the data at large momentum transfer. Comparisons of empirical analytical parametrizations with phenomenological models are also presented and discussed.

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