

STUDY OF THE AIRY PATTERN IN $^{16}\text{O} + ^{12}\text{C}$ ELASTIC SCATTERING AT 230 MeV

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The angular distribution of 230 MeV ^{16}O ions elastically scattered from ^{12}C has been measured in order to study the Airy pattern. The results display a prominent minimum at a scattering angle near 53° which may be interpreted as an Airy minimum. The data have been subjected to an optical model analysis in an attempt to determine the order of this Airy minimum, and to compare these results to those obtained earlier at the lower energy of 132 MeV. An exact identification still remains somewhat ambiguous, implying a need for further data at other energies.

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