

The Beauty of Malus' Law

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Abstract: This experiment aims to provide a comprehensive analysis of polarisation phenomena using Malus law, including linear, circular, and elliptical polarisation, using crossed polarisers. Malus' law provides a mathematical relationship between the intensity of polarised light and the angle between the polarising axis and the incident polarisation direction. The experiment addresses the experimental methodology for validating the Malus' law. The data collected in the experiments are compared with the theoretical predictions derived from Malus' law, and any deviations or discrepancies are analysed and discussed.