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THE MAGNETO-OPTIC CONSTANTS OF SODIUM BROMIDE

THE Faraday rotation in a single crystal of sodium bromide of 1·30 mm. thickness has been measured for the first time using a magnetic field of 15,400 Oersteds. The magneto-optic constants have been evaluated using the dispersion data available in Landolt and Bornstein Tables. The Verdet constant V has the values 0·0621 and 0·123 minutes per cm. per Oersted for the wavelengths λ 5461 and λ 4358, while the corresponding values of the magneto-optic anomaly γ are 0·86 and 0·88 respectively. The estimated accuracy is about 2 per cent. It is interesting to note that for sodium chloride V_{5461} is 0·0410 and γ is 0·91.

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