



55824 Experimental Set-Up has been designed specifically for determination of Elliptically Polarised Light by means of a Babinet compensator. The set-up consists of Babinet Compensator, sodium light source, mercury light source quarter wave plate, polaroid & two square stands.

The set up is complete in all respect and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

#### OBJECT

To study Elliptically Polarised Light by means of a Babinet compensator.

- 01 Calibration of micrometer screw
- 02 Measurement of phase difference between components of elliptical vibration produced by  $1/4$  plate, and
- 03 Determination of positions and ratio of the axes of the ellipse.

#### FEATURES

The complete experimental Set-up consists of :

- 01 Babinet compensator : For producing elliptical polarisation with different major and minor axis. Also for measuring double refraction in strained optical media. Consists of two round scales one with index and the other with vernier. First scale is for turning the analyser into any azimuth. The second scale (vernier scale) is for measuring the degree of orientation of a wedge box which contains two wedges cut in mutually perpendicular directions of optic axis in quartz. The long wedge is moveable by means of a micrometer drum with the help of which we can read very accurately the movement. The whole instrument is well finished and supplied with suitable cabinet. Micrometer screw reads upto 0.001cm.
- 02 Sodium Light source with leak transformer and box
- 03 Mercury Light source with choke and Box.

Note: Specifications are subject to change.

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