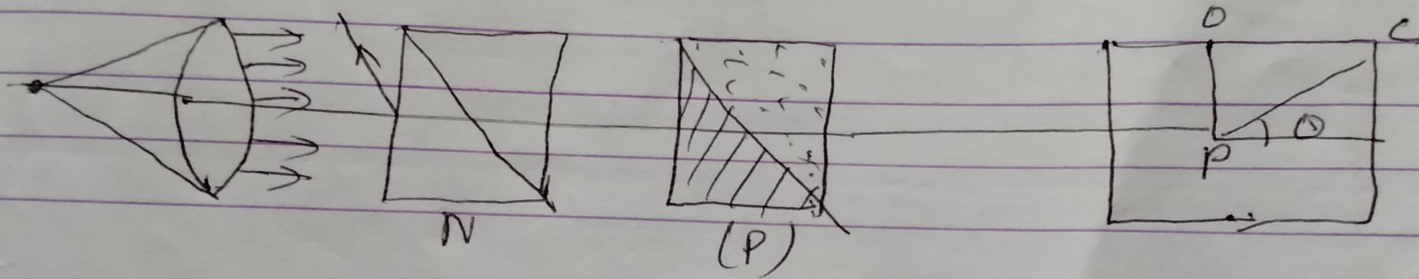


B.Sc - II 28/1/22

Analysis elliptically - polarised light by Babinet compensator

The monochromatic light fall on the Nicol prism as shown in the figure



Then the light transmitted by nicol prism is plane polarised light.

Let this plane polarised light is incident normally on uniaxial doubly refracting crystal (P) with its face cut. Let the optic axis let the vibrations of plane polarised light are inclined to the optic axis at P at time θ angle

These plane polarised light which traverses those portion of the compensator for which the path difference is

$$d = (t_1 - t_2) ; (M_E - M_0)$$

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