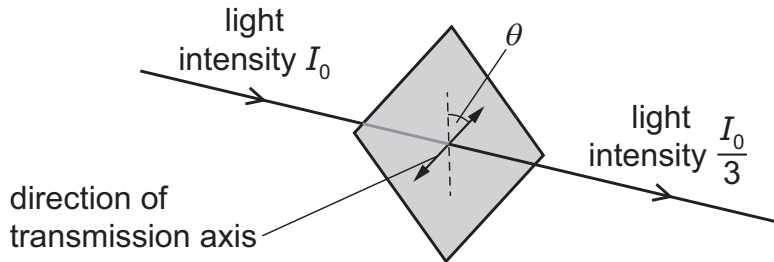


**27** Vertically polarised light of intensity  $I_0$  is incident normally on a polarising filter.

The transmission axis of the filter is at an angle  $\theta$  to the plane of polarisation of the light.

The intensity of the light after passing through the filter is  $\frac{I_0}{3}$ .



What is  $\theta$ ?

**A**  $8.4^\circ$

**B**  $55^\circ$

**C**  $71^\circ$

**D**  $84^\circ$