

16 A beam of laser light of frequency 5.0×10^{14} Hz is travelling through a vacuum.

What is the phase difference between points on the wave that are $1.5 \mu\text{m}$ apart?

A 0.5 rad

B 0.5π rad

C 1.0 rad

D 1.0π rad

17 Two perfectly polarising filters, X and Y , are arranged in parallel and in line with their planes of