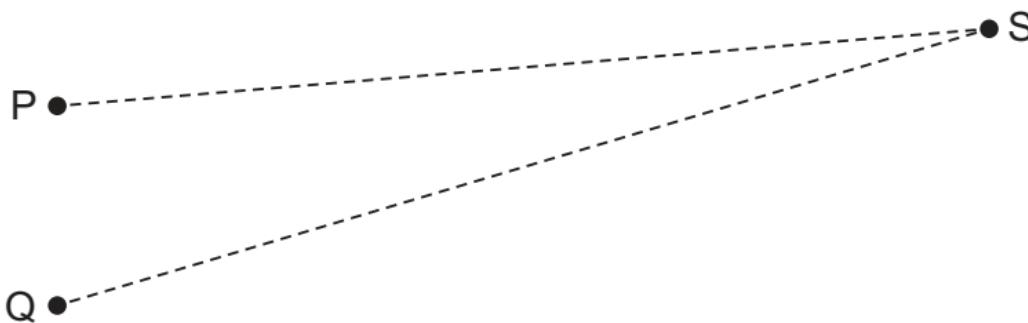


- 29 Two sources of microwaves P and Q produce coherent waves with a phase difference of 180° . The waves have the same wavelength λ .



At the point S there is a minimum in the interference pattern produced by waves from the two sources. The distance (QS – PS) is called the path difference.

In the expressions shown, n is an integer.

Which expression represents the path difference?

A $n\lambda$

B $\frac{1}{2}n\lambda$

C $(n + \frac{1}{2})\lambda$

D $(2n + \frac{1}{2})\lambda$

- 29 A parallel beam of monochromatic light of wavelength λ is incident normally on a diffraction