

18 A telescope with an aperture of 50 cm receives light of wavelength 620 nm from a binary star system which can just be resolved by the telescope.

The two stars are 5.7×10^{16} m from the telescope.

How far apart are the two stars?

- A 2.0×10^7 m
- B 7.1×10^8 m
- C 2.0×10^9 m
- D 7.1×10^{10} m

19 Electric fields are often represented by diagrams of field lines.