



DVDiffraction

- Aim** To determine the spacing of tracks on a digital versatile disc using the diffraction of laser light.
- Materials** 1 DVD 1 laser 1 rule
- Method**
- The DVD behaves like a diffraction grating.
 - Diffracted beams are the result of constructive interference between light waves from tracks on the DVD.
 - Using geometry and the wavelength of the laser, determine the spacing of the tracks on the DVD (give your answer in nm).
- Conditions**
- The laser **must not** be pointed at anything other than the DVD.
 - The laser and its support **must not** be moved.
- Time limit** 25 minutes.
- Ranking** The ranking order will be determined by the difference between the distance given by the team and the correct value.

Team

Result

nm

Do not write below line

Rank