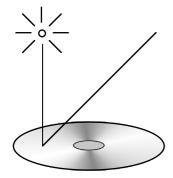
LIVERPOOL PHYSICS OLYMPICS





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 intereference 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
not write belov	v line Rank