Poster Presentations

[MS41-P01] A new look at the diffraction grating for non-normal incidence <u>Philip</u> <u>Bradfield</u> (retired), formerly of the

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A new visualisation is suggested for the nonnormal incidence case for a plane diffraction grating, which allows exploration of the nonsymmetrical location and dispersion of the several - generally overlapping and incomplete - orders of spectra of incident white light.

Keywords: diffraction, dispersion, overlapping

Plane Diffraction Grating Normal Incidence – Illustration/Direct derivation of spectral dispersion : a simple case

 $1^{\,st}$  order  $\,:\,complete,\,and\,non-overlapping\,\,with$   $2^{nd}$  order  $:\,incomplete\,\,\,(Violet\,to\,\,Blue)$ 

Plane Diffraction Grating Non-normal incidence, in a principal section Last complete spectrum: S(+3): V(3) ... R(3) S(4) ends at Y(4); S(5) ends at B(5)

