

## 4.5: Mission Report 4 - The Andromeda Shift

A.



B.



C.



D. Questions to be graded for accuracy

Below is a small part of the spectrum for galaxy NGC 6643, showing the  $H\beta$  (hydrogen beta) spectral line, with a rest wavelength 4860 Angstroms ( $1 \text{ Angstrom} = 10^{-10} \text{ m}$ ). The top graph is that of a reference galaxy that has not been shifted. The lower graph displays the spectrum for the galaxy NGC 6643.

1

2.

3.

4.

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