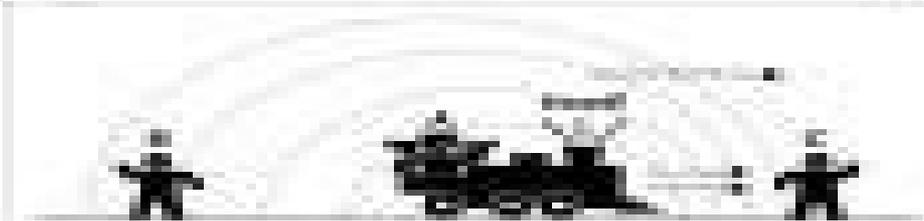


Astronomy Ranking Task: Doppler Shift

Question # 1

Scenario: The figure below shows a radio telescope pointed the right way pointing to Earth. Three persons are shown at locations A, B, and C. Assume that all three people view from the same (horizontal) line.



- Ranking Question:** Rank the observed wavelengths (longest and shortest) received by each person (ranked as listed by participants (A, B, C))

Ranking Order: Highest Wavelength _____ Lowest _____

(If the wavelength is the same for more than one person, _____) (Indicate with check marks)

Essentially explain your reasoning for ranking this way.

Person A will see the shortest wavelength because the highest relative frequency. Person B will see the longest wave since the relative motion is moving away so it is compressed. Person C will see the longest wave because relative motion is moving away so person C is moving towards the radio telescope before the frequency. Person B will see the longest wavelength because the radio telescope is moving away.

- Ranking Question:** Rank the wavelengths (longest and shortest) received by each person (A, B, C)

Ranking Order: Longest Wavelength _____ Shortest _____

(If the wavelength is the same for more than one person, _____) (Indicate with check marks)

Essentially explain your reasoning for ranking this way.

Person A will see the longest wavelength because the relative motion is moving away so it is compressed. Person B will see the longest wavelength because the radio telescope is moving away.

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Astronomy Ranking Task Doppler Shift Answers

Stephen J. Shawl



Astronomy Ranking Task Doppler Shift Answers:

Instructor's Manual to Accompany Essentials of the Dynamic Universe: an Introduction to Astronomy, Second Edition,
Theodore P. Snow Stephen J. Shawl, 1987

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