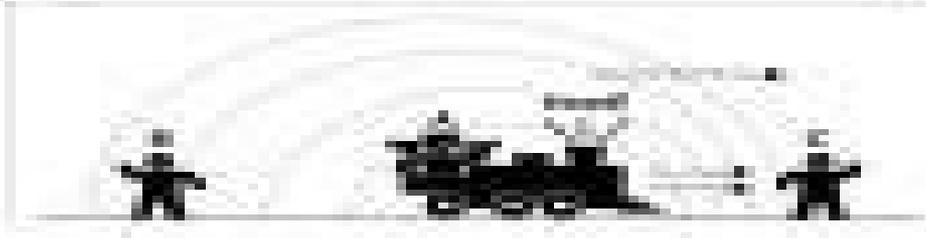


Astronomy Ranking Task: Doppler Shift

Question # 1

Scenario: The figure below shows a radio telescope pointed the right way according 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) and frequencies (lowest and highest) as heard by participants A, B, and C.

Ranking Order: Wavelength: _____; Frequency: _____

(If the wavelength for each person is the same, _____; likewise with short reply.)

Essentially explain your reasoning for ranking this way.

Person A will see the shortest wavelength (highest frequency) because B, who is moving away from the radio telescope, is moving away at a constant rate. The frequency will increase slightly further away from the radio telescope. Person C is moving towards the radio telescope before the frequency. Person B is the only person located from the radio-telescope in the same way.

- Ranking Question:** Rank the wavelengths (longest and shortest) and frequencies (lowest and highest) as heard by each person A, B, and C.

Ranking Order: Wavelength: _____; Frequency: _____

(If the wavelength for each person is the same, _____; likewise with short reply.)

Essentially explain your reasoning for ranking this way.

Observer A is moving towards the radio telescope before the frequency. Observer B is moving away from the radio telescope at a constant rate. Observer C is moving towards the radio telescope at a constant rate.

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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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Astronomy Ranking Task Doppler Shift Answers

Chorus, and Orchestra (Piano-Vocal Score). Adolphus Hailstork (composer), Anonymous (lyricist) ... I Will Lift Mine Eyes Unto the Hills (Psalm 121) ... Music Sample: CGB528 I Will Lift Mine Eyes Unto the Hills (Psalm 121) (Full Score).
Description: This calm, meditative original composition directly ... I will lift up mine eyes - Sheet Music - John Rutter John Rutter. I will lift up mine eyes. Vocal score. Forces or Category: SATB & organ/orchestra. Orchestration: 2.2.2.2-2.0.0.0-timp(opt)-hp-str. I to the Hills Will Lift Mine Eyes (Psalm 121) I to the Hills Will Lift Mine Eyes (Psalm 121): from Tenebrae (III) (Full Score) - 8598A. \$17.00 ; I to the Hills Will Lift Mine Eyes (Psalm 121): from Tenebrae ... I Will Lift Up Mine Eyes Vocal Range: High ; Pitch Range: E4- F#5 ; Composer: Michael Head ; Text Source: Ps 121 ; Publisher: Carl Fischer ... John Tavener: I Will Lift Up Mine Eyes ... John Tavener: I Will Lift Up Mine Eyes Unto The Hills (Vocal Score). German Edition. John Tavener: I Will Lift Up Mine Eyes Unto The Hills (Vocal Score). I Will Lift My Eyes - Full Score and Parts Vocal Forces: SATB, Cantor, Solo, Assembly. Accompaniment: Keyboard. Guitar: Yes. Instrumental parts included: C Instrument, Flute I, Flute II, Oboe, ... I Will Lift up Mine Eyes - Marzo, Eduardo Jul 5, 2014 — Marzo, Eduardo - I Will Lift up Mine Eyes Psalm 121. Voice High and ... "For over 20 years we have provided legal access to free sheet music. I Will Lift Up Mine Eyes (Sowerby, Leo) [7 more...]

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