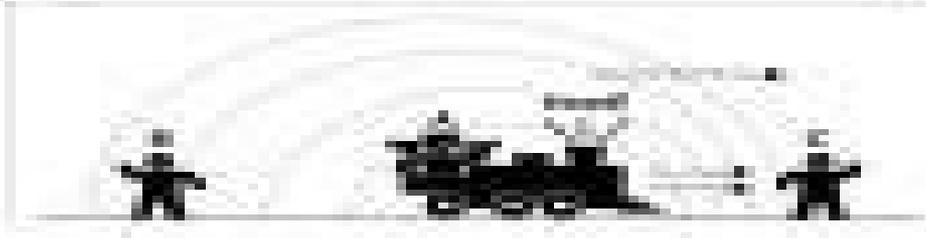


Astronomy Ranking Task: Doppler Shift

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, C).

Ranking Order: Wavelength: (A) > (B) > (C) (A) < (B) < (C)

(If the wavelength by each person is not the same, _____, fill in with about equal.)

Essentially equal: give wavelength for ranking this way.

Frequency: relative distance to the wavelength the highest = lowest frequency. Shorter λ , higher frequency. Note the relative motion (moving toward or is away) with the λ . The frequency will increase (shorter λ) if you move toward a point. Frequency decreases (longer λ) if you move away. Frequency is the point (wavelength) located from the radio-telescope (radio wave).

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

Ranking Order: Wavelength: (A) > (B) > (C) (A) < (B) < (C)

(If the wavelength by each person is not equal, _____, fill in with about equal.)

Essentially equal: give wavelength for ranking this way.

Frequency: relative distance from wavelength. Higher the frequency (shorter λ) if you move toward. Shorter λ , the higher the frequency. Higher the relative distance from frequency decreases.

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Astronomy Ranking Task Doppler Shift Answers

Liying Dong



Astronomy Ranking Task Doppler Shift Answers:

Embracing the Track of Appearance: An Mental Symphony within **Astronomy Ranking Task Doppler Shift Answers**

In a global taken by monitors and the ceaseless chatter of immediate interaction, the melodic elegance and mental symphony created by the written word frequently fade into the back ground, eclipsed by the constant sound and interruptions that permeate our lives. But, located within the pages of **Astronomy Ranking Task Doppler Shift Answers** a wonderful literary prize full of fresh emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this charming masterpiece conducts readers on a mental journey, well unraveling the concealed tunes and profound affect resonating within each cautiously crafted phrase. Within the depths with this emotional assessment, we shall investigate the book is key harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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