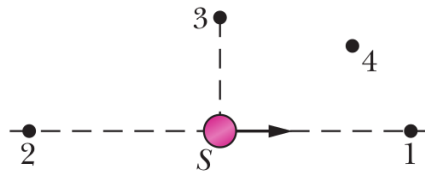


PHY121 Summer 2018

Pre-work for Thursday 6/14

1. For a particular tube, four of the six harmonic frequencies below 1000 Hz are at: 300, 600, 750, and 900 Hz. Which two frequencies are missing from this list?
2. The figure below shows a moving sound source S that emits at a certain frequency, along with four stationary detectors. Rank the detectors according to the frequency of the sound they detect (greatest frequency first).



3. Contemplate a favorite piece of music (classical, contemporary, or anything in between). What draws you to that particular piece? Is it the groove? The harmonies? The lyrics? The melody? (These are just a few suggestions to spark your thoughts - there are many possibilities.)