
 vary some from problem set to problem set, with this problem set being one of the point allocation for each problem has been added. The total number of points will * The due date has been changed from Sept. 15 to Sept. 17. In addition, the
 source be $v_{s}$. that travels in a circular orbit of radius $R$ about the observer. Let the speed of the


direction with speed $v_{o}$ relative to the air. Calculate the Doppler shift $z$ to the air, while the observer is receding from the source, moving in the opposite
 Consider the Doppler shift of sound waves, for a case in which both the source PROBLEM 1: NONRELATIVISTIC DOPPLER SHIFT, SOURCE
AND OBSERVER IN MOTION (5 points) DUE DATE: Thursday, September 17, 2009
READING ASSIGNMENT: The First Thi
 Prof. Alan Guth Physics 8.286: The Early Universe

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distance $R$ from a central hub. Each car is sending waves to all three of the other
cars.



8.286 PROBLEM SET 1, FALL 2009
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