Question #272

A tube is positioned over a loudspeaker that is producing the sound of broadband noise, as heard by clicking your mouse on the photograph at the left below.

The tube can be telescoped into a longer tube by pulling up the outer liner, as seen in the photograph at the right above.

When the tube is elongated, the frequency of the tone produced will:

• (a) increase, due to the resonance of the tube.
• (b) decrease, due to the resonance of the tube.
• (c) remain the same.
• (d) become much softer due to resonant absorption.

Click here for Answer #272 after February 5, 2007.