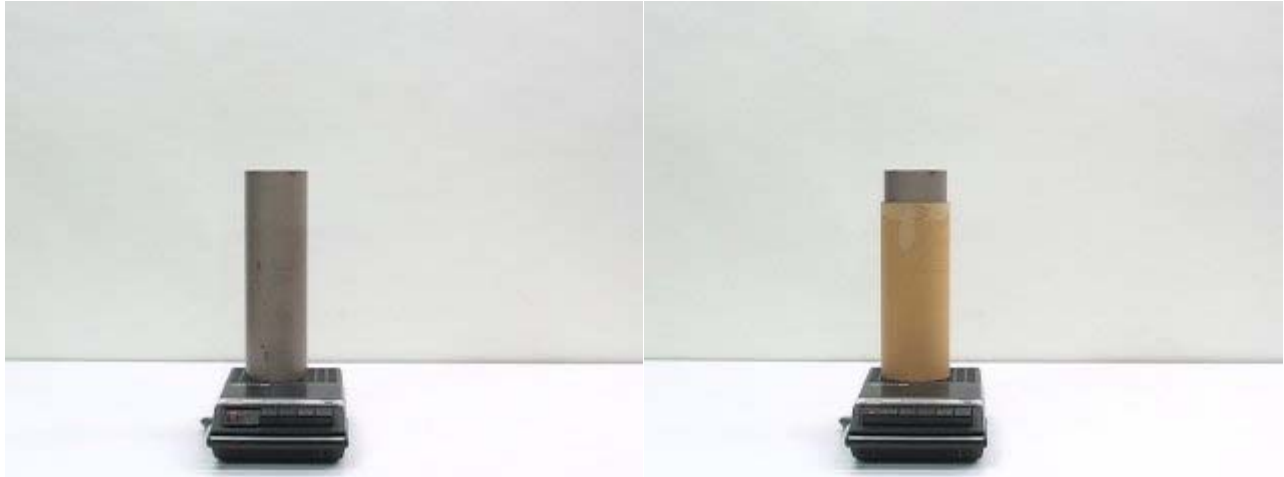


## Question #272

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.

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For questions and comments regarding the *Question of the Week* contact [Dr. Richard E. Berg](#) by e-mail or using phone number or regular mail address given on the [Lecture-Demonstration Home Page](#).