Quantifying sound

- Perceptual characteristics
 - Loudness
 - Pitch
 - Timbre (tone color)

- Physical characteristics
 - Intensity
 - Frequency
 - Time variation and harmonic spectrum

Frequency and pitch

- Pitch depends primarily (approximately) logarithmically on frequency
 - Pitch: Perceptual property
 - Frequency: Physical property

An expression of how frequently a periodic wave form or signal repeats itself at a

given amplitude

$$f = \frac{1}{T}$$

