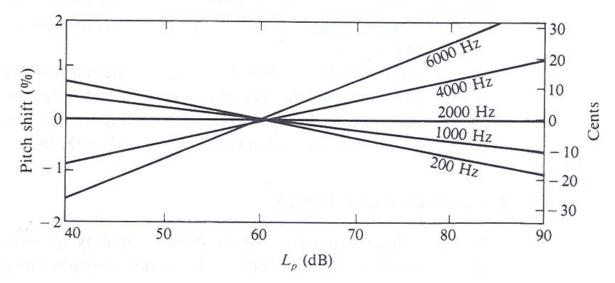
Human perception of pitch also depends {~ weakly} on the *loudness* of the sound.

- \* Effect arises due to non-linearities in the f & I response of the human ear.
- \* Pitch (perceived f) changes as loudness increases see graph below...
- \* Effect exists only for pure/simple tones (!!!)
- \* Complex tones show <u>no</u> perceived pitch changes with loudness! (why??)



Two ears of same person may *NOT* perceive sound of a given frequency as having the same pitch!!! = DIPLACUSIS – happens *only* for diseased, and/or injured ears.

For *normal* musical purposes, frequency and pitch are synonymous (usually) *n.b.* applies *only* to *periodic* sounds.

Sound *pulses* are made up of a *continuum* of frequencies, sound *pulses* are thus <u>anharmonic</u> and hence have <u>*no*</u> characteristic frequency and/or pitch.