
Subject: Reflective Sound

Posted by [gofar99](#) on Sun, 13 Jan 2013 03:15:16 GMT

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Hi Everyone, All you smart folks put on your thinking caps. I've been doing some measurements in my listening room. The set up is Martin Logan Electrostatics. Signal is pink noise via some of my own amps. Linearity of the signal chain is excellent (under 1 db except for the ESLs). With a calibrated mic, 1/6th octave spectrum analysis software on the PC and with the background noise normalized With one channel driven it is pretty easy to get a fairly uniform response in the 400-10K range. Below that there are the expected peaks and nulls. So I can get a number of speaker locations that give essentially the same results. Listening however shows distinct differences. Some seem "nicer" than others. In stereo it is more dramatic. Much harder to get a smooth curve and much more obvious listening differences. I will see if I can develop a table of distances that have similar performance, but different sound. My thought is... and here is where I would like some input.... is that the different locations are odd and even multiples of various wave lengths that fall in key vocal / musical areas. Sort of like harmonic distortion, even ones sound nice, odd ones sound bad. What does anyone think?
