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Subject: Re: Bonus Room - bad for sound?

Posted by [Wayne Parham](#) on Thu, 23 Feb 2012 00:39:57 GMT

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I find that shape particularly bad at ceiling slap in the places where the incidence angle directs reflections from speakers towards the listener. Rooms like that are usually worst in the center of the room, where both angled sections are at right angles, as is the ceiling directly overhead. A similar situation happens in rooms with gently angled cathedral ceilings. They can make a sort of tinitus sounding ringing sound around 2/3rd the way from either wall.

An easy way to test it is to walk around in the room and clap. Do one single sharp clap and listen to the aftersound. You'll find some spots that ring really bad. That will give an indication of what I'm talking about. Then, if it's really bad, you can go a step further and put speakers where you (think) you want them, and play a recording of a similar sort of transient. Gunshot, fireworks or hand clap. A single works best, so you can listen for the ringing. Play this recording and walk around the room to see where it sounds best. You will find some spots that are better than others. You can also try different speaker placements. Naturally speakers with limited HF vertical beamwidth help a great deal.