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Subject: Re: 4 Pi and 7 Pi bass response- More similar or different?

Posted by [Wayne Parham](#) on Tue, 16 Mar 2010 23:29:23 GMT

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They have two big advantages, first is the corner sets the pattern constant all the way down in frequency, clear down to the Schroeder frequency. This is where room modes begin to take over, making pockets that sort of overrule the launch directivity. Standing waves within the room modify the wavefront that would have existed outdoors or in a very large room. But from about 150Hz up, the cornerhorn makes a pattern with constant directivity, and I know of no other configuration that can do this. The second advantage is you split up the mids and bass, which improves IMD and also gives some smoothing of the upper modal region.

So if you have the right corners, use them. But if you don't, the DI-matched speakers are very close, especially when combined with multiple subwoofers. More info at the link below: