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Subject: Consider constant directivity cornerhorns

Posted by [Wayne Parham](#) on Sat, 07 Jan 2012 20:42:10 GMT

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constant directivity cornerhorn is designed to be placed there, and maximizes the benefit of that configuration:

but if you have the right corners, you'll be much better off with constant directivity cornerhorns because they are designed to be placed there, being acoustically close to the apex.

Having the mains backed into the corner will prevent reflections off the back wall or adjacent side wall at low frequencies, leaving only the standing wave modes to deal with. But a traditional cabinet cannot be backed close enough into the corner to prevent reflections off the rear and adjacent side wall at low-midrange frequencies. That's why the constant directivity cornerhorn has the advantage. It is able to truly provide constant directivity from the Schroeder frequency upwards.

But you will still have issues below the Schroeder frequency. That's where multisubs can help. Constant directivity cornerhorns don't need flanking subs, because they are already sort of built-in.

But you would benefit from subs placed further away. You don't want them near the mains, because they won't provide modal smoothing. Can you perhaps place the subs in opposite corners? Maybe even in the walls?

High-Fidelity Uniform-Directivity Loudspeakers

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