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Subject: Re: Axisymmetrical horns

Posted by [Wayne Parham](#) on Tue, 20 May 2008 23:41:29 GMT

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There's a similar configuration I like a lot. Some call it a 2.5 way speaker. It's not done for midrange directionality though, it's done for low midrange and bass quality. With two sound sources operating in the deep bass range, floor bounce and room modes are smoothed. The lower woofer is crossed over pretty low, leaving only the upper woofer to cover the midrange. It's a good idea, in my opinion. The way I implement such a system is to put a subwoofer below or

separate lets the user have some configurability. That way you can put the subwoofer off to the side a foot, and the mains on a short stand, so the midwoofer is in a different location in all three planes. Overlap them through the bass range for best smoothing. Another way I implement

suffer floor bounce. The midhorn doesn't suffer floor bounce because of blending with the woofer. Its response is low enough to smooth some of the higher modal range. Subs can also be added to this configuration to further smooth the lower modal range.

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