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Subject: Re: Pi 4.5 possible?

Posted by [Wayne Parham](#) on Fri, 30 Jul 2010 23:29:00 GMT

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Personally, I think the 2.5-way will probably work better than an MTM for a loudspeaker like this. Remember that the "M" in "MTM" stands for midrange, and it is best done with small drivers, keeping the driver spacing tight. You can understand how a 1" dome tweeter flanked by a couple 6" midranges can all be packed into a foot or 15" of vertical spacing. With crossover in the right frequency range, the vertical nulls can be pretty far apart. That's the goal.

If your midwoofers are large, they can't possibly be clustered close together. A couple 12" or 15" midwoofers can't be less than a foot apart, even without the tweeter. Then add to that the height of the horn, and you have a lot of vertical spacing. I just don't see that working well. Better to go with the DI-matched two-way approach, or maybe a 2.5-way with the bottom woofer crossed-in around the Schroeder frequency.