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Subject: slope or slanted baffle vs stands four Pi  
Posted by [hoerath7](#) on Mon, 31 Aug 2009 23:02:57 GMT

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i have been tinkering with the four pi design for a few months and had a question or two. I love the sound I am getting out of the standard design but I was thinking about experimenting with the enclosure. I really want the sound to be at ear level. What would tilting the baffle back 10 degrees or so do to the sound? Is that an option? I know it might lose some floor loading but what should i expect and has anyone gone down this road.

I also wondered what effect putting them on stands would have. Stands are uglier (much uglier in my opinion) than sloped baffles. They also take up more space. If this is a better option over the slanted/sloped baffle I would consider it.

Either way ... i really feel like the sweet spot for this speaker is on axis at floor level... and i don't want to have to sit on the floor to listen to it!

Right now I have mockups built that are in 3.1 cu ft cabinets. I know the plans call for a 2.6 cu ft cab. Will a 2.6 cab sound better than a 3.1 cabinet and why? What differences would I experience or notice if I move to a smaller cabinet?

My other noob questions are whether I should build my final version of the cabinets out of BB. My mockups are mdf.

thanks so much  
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Subject: Re: slope or slanted baffle vs stands four Pi  
Posted by [Wayne Parham](#) on Tue, 01 Sep 2009 04:53:03 GMT

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Click here for a list of previous posts about stands and angled risers. You'll see I recommend angled risers when used without subs or 18" stands when used with subs. The reason for two different recommendations is that rising the speakers off the floor creates a self-cancellation notch in the upper bass or lower midrange but when subs are used, they can be blended in such a way that smooths the floor bounce and other room modes. The subs serve not only to increase extension but also to smooth response.

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Subject: Re: slope or slanted baffle vs stands four Pi  
Posted by [Wayne-o](#) on Wed, 02 Sep 2009 05:21:10 GMT

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No wonder I was messed up on this subject, this is the same thing I found out. I should have read more threads ,it seems you have all the subjects on my Questions in previous threads. I just dont do a correct search sometimes, 35 years playing around with speakers. I sure wish I had this info in the 70s Thanks Wayne for your info. God bless !!!

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Subject: Re: slope or slanted baffle vs stands four Pi  
Posted by [hoerath7](#) on Wed, 02 Sep 2009 20:45:12 GMT

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Thanks wayne for the post... I had read a few of those links when I was searching but getting them on in one spot really helped. I am going to go ahead with risers.

Wayne-o what did you mess up exactly??? I gotta make sure I don't follow in your footsteps!

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Subject: Re: slope or slanted baffle vs stands four Pi  
Posted by [Wayne-o](#) on Wed, 02 Sep 2009 22:53:06 GMT

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The woofer placement is very critical in the bass region. moving the woofer up was causing at least a 3 db loss in bass and about a 3 db gain in the midrange. I showed this to a friend of mine after already telling him what it would do , still when I moved the woofer to the floor he was amazed by 3 things,A lot more bass, less midrange and a completely different tone. Well I still dont know anything,and my nature is to always question anything new to me. Wayne P. is very factual and to the point. I am just a old Audio Tech. in Indiana.

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Subject: Re: slope or slanted baffle vs stands four Pi  
Posted by [Shane](#) on Wed, 02 Sep 2009 23:23:47 GMT

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I've heard Wayne's personal 4 Pi's in both configurations, but I have to tell you that when they are up on stands and augmented with subs they are truly outstanding. By far the best I've ever heard them sound. If \$\$\$ and space allow that would be the way I would go.

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Subject: Re: slope or slanted baffle vs stands four Pi  
Posted by [Psychoacoustic](#) on Thu, 03 Sep 2009 01:06:14 GMT

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To echo Shane- multiple subs are more than an augmentation for the Pi4 on stands- they enable a whole other character to be revealed and do wonders for the listening room. Been using two Pi3 subs with Pi4 and other speakers- consider them a necessity now.

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