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Subject: Re: 4 Pi Home Theater Build

Posted by [NWCgrad](#) on Fri, 06 Jul 2012 17:32:18 GMT

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Wayne Parham wrote on Tue, 26 June 2012 10:32

That looks good from 100Hz up, which tells me the flanking subs are setup correctly. I do think you might benefit from adding one or two more distant subs to smooth the lowest modes. You could fill in that 60Hz notch, for example. That would make the 40-50Hz region sound less pronounced, because the bass would be more uniform, overall.

You'll notice the difference between the peaks and valleys below 100Hz is around 15dB. This is typical of room modes that aren't well damped. The peaks and dips above 100Hz would also be this large without your flanking subs filling them in. The flanking subs reduce the ripple by about half. Add another sub or two placed further away and you can expect the same sort of smoothing below 100Hz as the flanking subs provide above 100Hz.

One or two more subs, do I look like a sub junkie to you!

Okay, maybe I could become one. When I return to the US (nearly 1 year complete, 1 more to go) I am thinking about building true 3 Pi sub enclosures (vice 16" sealed cubes) for my flanking subs (set to the outside of the 4 Pi's), a JBL STX828S sub (dual 18" 2242 H drivers, 37 Hz 120 Hz +/- 3 dB), and a DIY 18" LLT (large, low tune) sub tuned to 11 Hz for the bottom (models at >110 dB at 10 Hz, 1200 W input, slightly under Xmax).

With proper distribution this combination should address the room modes and be flat from below 20 Hz to LPF.

If not, I could always add more

### File Attachments

1) [myLLT1200wExodusMaelstrom-Xgen2.gif](#), downloaded 8197 times

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