Subject: Re: Mono "flanking sub"
Posted by Wayne Parham on Tue, 10 Nov 2015 20:43:39 GMT
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I would definitely blend as many sources as possible in the modal region, below 200Hz. Above 200Hz, the sound field is already complex, which is why it is called the statistical region. It is already blended by dense interference from all the mutitude of reflections in the room.

There is a transition region where the sound field is neither densely spaced tiny ripples, nor is it consist of large modes. It's somewhere in between, where the modes are becoming closer together but still apparent, at least in measurements. That is a region that's arguably harder to deal with. One can smooth the transition region with an array of midrange drivers. Even a truncated array can be used to good effect. So if you want to put a helper midwoofer very close to the mains and crossover above 200Hz, that can help smooth that region. It's the same approach as a flanking subwoofer, but closer, perhaps mounted on the same baffle like a 2.5-way loudspeaker.