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Subject: Re: Mono "flanking sub"

Posted by [Wayne Parham](#) on Thu, 26 Nov 2015 00:08:20 GMT

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The phase differences in filter types are extremely subtle in comparison to the disparate phase relationships between reflections and direct sounds that we seek to address with multiple subs, both flanking and distributed.

The differences between filter types are very important to summing between point sources. But we're not talking about that here. We're dealing with dense interference. Rather than trying to combine two point sources constructively, we're blending a large number of reflections and direct sound sources with complex phase relationships.

So there is no "correct" filter type. It is actually non-sequiter to discuss filter type in this context. Basically, you want the slope that works best. You'll find that empirically. But don't expect much change between the filter types. The phase difference is tiny compared to the differences in phase between sound sources and their reflections.