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Subject: Re: Flanking Subs vs Helper Woofers

Posted by [Wayne Parham](#) on Fri, 28 Dec 2012 23:20:39 GMT

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zheka wrote on Fri, 28 December 2012 15:31 Can you explain what the decorrelation filters are, how they work, how effective can they be in multisub and what kind of processors are used to make them?

A decorrelation filter randomizes the signal. It is like adding jitter or reverb. That way the self-interference pattern is not well-defined. It's like putting the subs in several places at once.

Here is a paper on the subject of decorrelation filters used in echo cancellation:

Acoustic Echo Cancellation for Surround Sound This technique is common in noise reduction circuitry, and shows how the process works. From this, you can get an idea how it could be applied to the room mode problem.