
Subject: Cardioid subwoofer

Posted by [JLapaire](#) on Mon, 12 Jan 2004 12:09:48 GMT

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Augsperger's cardioid looks very much like what Meyer is doing. A second driver 34" behind the first, inverted and delayed, produces the rear null. Within the cabinet, the rear driver might be assisting the front driver like a push-pull in spite of the delay. Would a U-shaped baffle with the leg length chosen for $1/4$ wavelength also exhibit a cardioid pattern or at least a dipole pattern with reduced rear projection? In any case, it looks like progressive cancellation at low frequencies is going to nix the use of open-baffle types for DJ use where weight and bulk are important considerations. I might try some in my sunroom where room modes are a problem and high SPL not necessary. John
