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Subject: 4-pi "clone", active - am I on the right track?  
Posted by [mathiasb](#) on Sat, 08 Jul 2023 21:46:26 GMT  
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Hello,

I built a set of four Pi "clones", similar build but a tad smaller and no horizontal offset for the tweeter. I am trying to understand / learn along this process so my current crossover is probably far from ideal. I am using a MiniDSP device.

Any idea how I should set the crossovers and time alignment? Many thanks in advance.

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#### File Attachments

- 1) [JBL speaker 1.png](#), downloaded 311 times
  - 2) [JBL speaker 2.png](#), downloaded 302 times
  - 3) [JBL speaker 3.png](#), downloaded 285 times
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Subject: Re: 4-pi "clone", active - am I on the right track?  
Posted by [Wayne Parham](#) on Sun, 09 Jul 2023 15:01:15 GMT  
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Those look cool!

Here are some things to consider, test and check:

Phase angles, crossovers and baffle spacing

Baffle spacing, phase angles and time alignment, revisited

Crossover optimization for DI-matched two-way speakers

Cabinet design, port placement and internal standing waves

Damping material placement

You might also check some of the other links in the Pi Speakers FAQ.

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