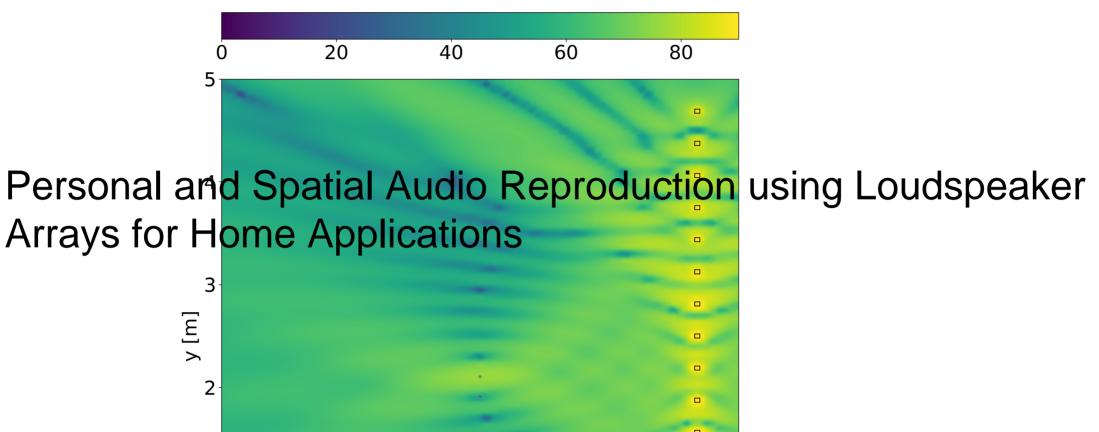
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Accurate room acoustic modeling plays an important role for designing at transaural reproduction system. I investigate the impact of mismatched room acoustic modeling on the performance of the system in reverberant environments and find that modeling the early reflections using the image source method can provide satisfactory binaural listening experience.

To improve the performance in different reverberant rooms, room equalization may be utilized. Whether we can estimate room impulse responses at different positions accurately enough (for example, based on sound field interpolation and other data-driven methods) for room equalization and personal audio remains unclear.