

Wave-Ray Multigrid Method for The 1D Helmholtz Equation A precise mathematical formulation and first analysis

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We try to analyze the convergence properties of the wave-ray multigrid method for the Helmholtz equation in the 1D case. We present the details of the method and perform a local Fourier analysis for the convergence behavior.

This preliminary study shows no remarkable evidence of advantages by using the wave-ray idea.

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