

Synthetic Acceleration for Radiative Diffusion Calculations

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1. Introduction

1.1 Paper summary and significance

1.2 Synthetic Acceleration Method

2. Method

2.1 Problem/equations

2.2 Unaccelerated Iteration

2.3 Accelerated Iteration

2.4 Fourier Analysis and Convergence

3. Tests

3.1 Fleck and Cummings Test

3.2 Test A1, nonzero boundary conditions

3.3 Test A2, one group

3.4 Fourier-informed tests