

# Synthetic Acceleration for Radiative Diffusion Calculations

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NE 795 Computational Project  
5 December 2025

## 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**