

2071 Lab 10: Iterative Methods

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1:40-3:00PM MW, Thack 622

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Introduction

- ▶ Iterative methods, 3 sessions
- ▶ Focus on conjugate gradient and sparse matrices arising from PDEs (FDM)

Exercises

1. `meshplot.m`, `tests.m`
2. `poissonmatrix.m`
3. `anothermatrix.m`
4. `cgm.m`
5. `cg.m`
6. `anotherdiags.m`, `poissondiags.m`
7. `multdiags.m`
8. `cgdiags.m`
9. Sizes of things
10. Matlab sparse storage.
11. ICCG (extra credit)