COMS E6998-15: Algebraic Techniques in TCS (Fall'21)   September 14, 2021

Lecture 1: Algebraic Graph Algorithms

Instructor: *Josh Alman*   Scribes: *YOUR NAME*

1   Introduction

The class is about algebraic algorithms for graph problems...

2   Course Topics

• Matrix Multiplication

....

3   Problem: All-Pairs Shortest Paths

In this problem, we have to...

Claim 1. $T(n) = O(n^{\log_2 7})$.

Proof. The proof is by induction... $\square$