

Summary of Lecture 11

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Reading: [Arora-Barak (AB)] Chap 5.3, 6.1.

- Time-Space trade-off for solving the SAT problem. Proof of $\text{SAT} \notin \text{TISP}(n^{1.2}, n^{0.2})$.
- The motivation of studying the circuit model. The difference between the circuit model and Turing machines.
- Basic mathematical formulation of circuits: input, output, gates $(\mathcal{B}_0, \mathcal{B}_1)$, size, depth.