CS151 Complexity Theory

Lecture 11 May 4, 2004

Outline

CS151 Lecture 11

• Extractors

May 4, 2004

- Trevisan's extractor
- RL and undirected STCONN

















































29

Oracle Turing Machines

- M^C decides language L if for some language

Both together: C^D = languages decided by OTM "in" C with oracle language from D

exercise: show **P**^{SAT} = **P**^{NP} CS151 Lecture 11

· using complexity classes as oracles:

Shorthand #2:

– OTM M

May 4, 2004

- complexity class C

 $A \in \mathbf{C}, \mathbf{M}^{A}$ decides \mathbf{L}



CS151 Lecture 11

28



