

Intro to Theory of Computation

CS
464

LECTURE 30

Last time

- The class PSPACE
- TQBF is PSPACE-complete
- Hierarchy theorems

Today

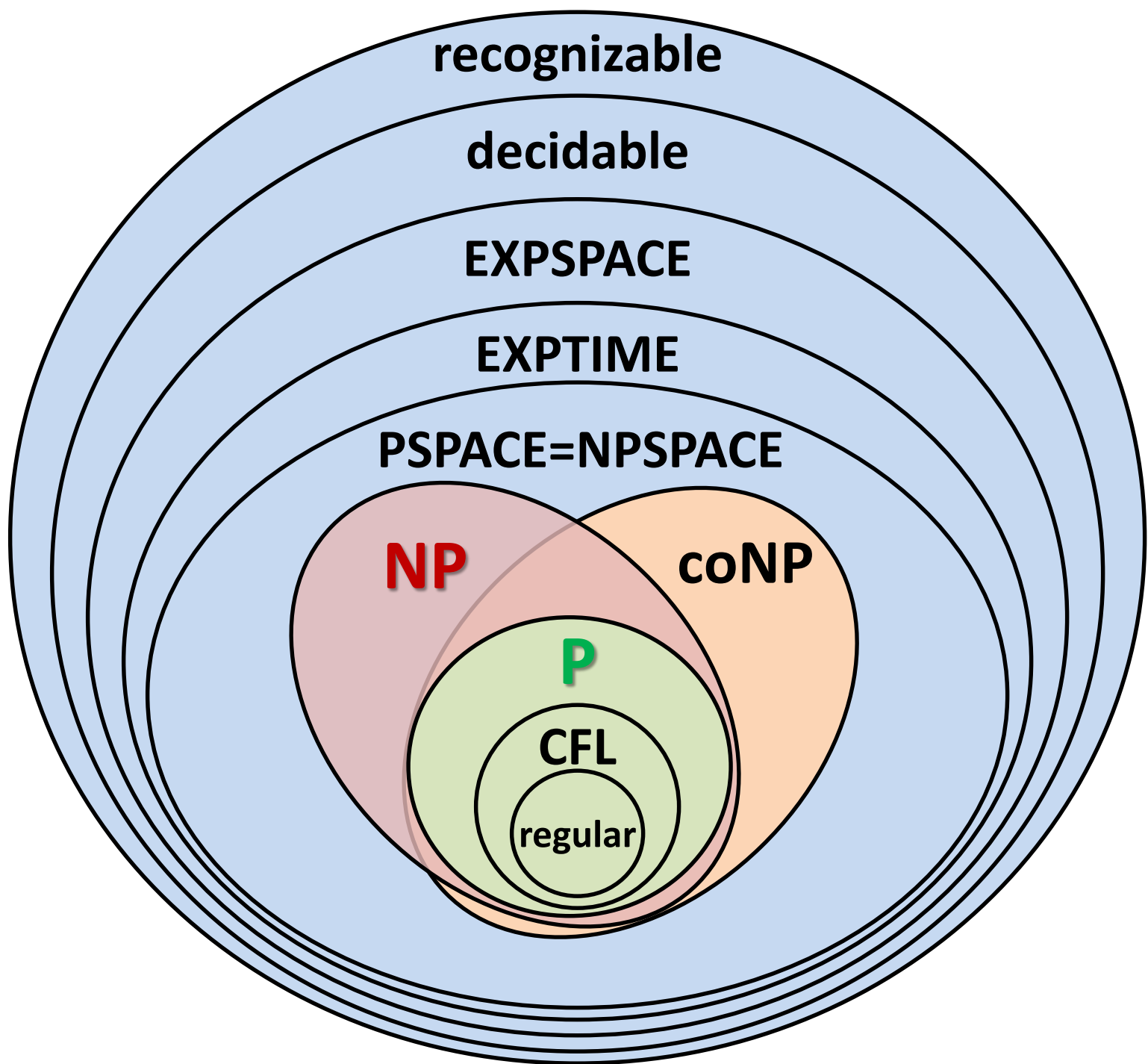
- Review and ``Jeopardy!''

Homework 12 due

Final Exam Preparation Handout out

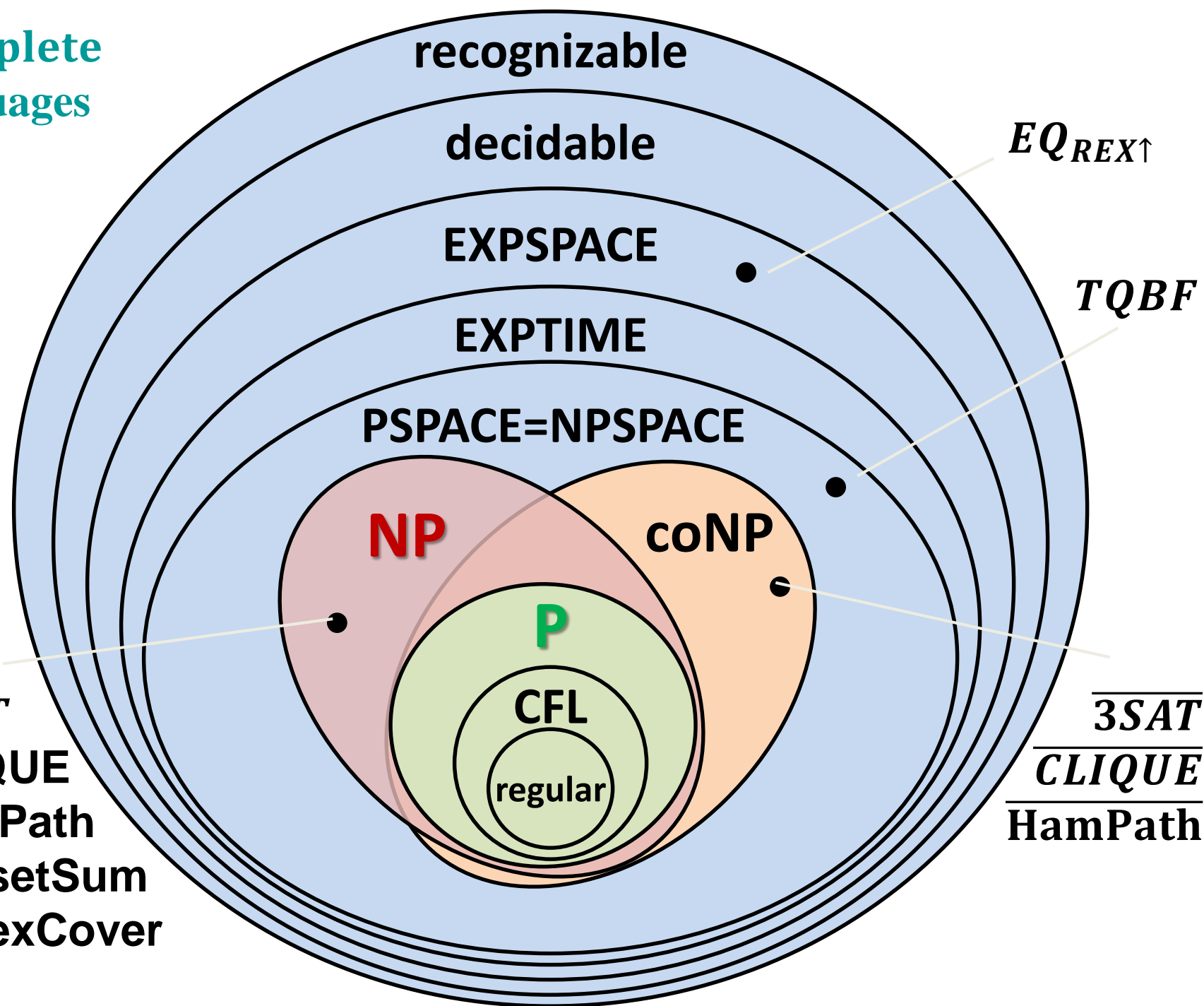
Sofya Raskhodnikova

1. Automata theory
2. Computability theory
3. Complexity theory



**Complete
languages**

**3SAT
CLIQUE
HamPath
SubsetSum
VertexCover**



I-clicker question (frequency: AC)

3SAT is decidable, but not in polynomial time.

- A. True**
- B. False**
- C. Unknown**
- D. None of the above**

I-clicker question (frequency: AC)

$EQ_{REX\uparrow}$ is decidable, but not in polynomial time.

- A. True
- B. False
- C. Unknown
- D. None of the above

I-clicker question (frequency: AC)

A_{TM} is decidable, but not in polynomial time.

- A. True
- B. False
- C. Unknown
- D. None of the above