

Randomization

RPSAPP BPP = P

perfect solutions false negatives  
false negatives + positives

interacting protocols

$AM = AMC_2$   
 $= AMC_3$   
 $= 1P C_{k-2}$

approximations

Vertex cover (2)  
set cover (ln n)  
metric tsp (2)

PCP

$TC(10, 10^8)$   
 $= NP$

parallelization

$AC = NC SP$   
efficient para

TM

robust undecidability of halting

1-3

$\Phi$  VS NP

CG NP Tautology

4-7

LC, NC, PSPACE

$= NPSPACE$   
8-11

PH  $\Sigma_1^P$

Theorem

hierarchy  
diagonalization  
Ladner's

Savitch's  
 $CONFS$   
steps