



Assignment 8, Complexity Theory, WS 13/14

Markus Bläser, Thatchaphol Saranurak

<http://www-cc.cs.uni-saarland.de/course/42/>

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Exercise 8.1 Show the following: A language L is in ZPP if and only if L is accepted by a probabilistic Turing machine with error probability zero and expected polynomial running time. Here the expectation is taken over all possible random strings on the random tape.

Exercise 8.2 Show that if $\text{SAT} \in \text{BPP}$ then $\text{SAT} \in \text{RP}$.