

Random reals and infinite time Turing machines

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We prove an analogue to Sacks' theorem for infinite time Turing machines: if a real is infinite time Turing computable relative to all reals in a set of positive measure, then it is infinite time Turing computable. To this end, we prove results about random forcing over admissible sets and several other results about infinite time machines.

This is joint work with Merlin Carl.