

**On the phenomenon of autocomputability**

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**ABSTRACT**

Following Trakhtenbrot's concept of autoreducible set, we look at the general phenomenon of *autocomputability* of infinite binary sequences. We define another appropriate mathematical model of this concept: *the strongly autoreducible set*. For this purpose, we need to introduce a natural restricted form of *wtt*-reduction between sets: *minimal weak truth table reduction*. Then we prove several basic facts about strongly autoreducible sets.