

- ▶ KATRIN TENT, *Computable functions on the reals*.
Fakultät für Mathematik, Universität Bielefeld, Postfach 100131, 33501 Bielefeld, Germany .
E-mail: `ktent@math.uni-bielefeld.de`.

We introduce a new notion of computable function on the reals and prove some basic properties. We give two applications, first a short proof of Yoshinaga's theorem that periods are elementary (they are actually low). We also show that the low real numbers form a real closed field which is closed under exponentiation and some other special functions. For holomorphic functions we prove a local-global principle.