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Nonreciprocal algebraic numbers of small measure

Comment.Math.Univ.Carolinae 45,4 (2004) 693-697.

Abstract: The main result of this paper implies that for every positive integer $d \geq 2$ there are at least $(d - 3)^2/2$ nonconjugate algebraic numbers which have their Mahler measures lying in the interval $(1, 2)$. These algebraic numbers are constructed as roots of certain nonreciprocal quadrinomials.

Keywords: Mahler measure, quadrinomials, irreducibility, nonreciprocal numbers

AMS Subject Classification: 11R06, 11R09