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Title: Diagonal forms over quadratic extensions of \mathbb{Q}_2

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In 1920, Emil Artin conjectured: Let K be a field complete with respect to a discrete absolute value, with finite residue field. Then every homogeneous form with coefficients in K and degree d with at least $d^2 + 1$ variables admits a non-trivial zero. In this article, we prove the conjecture for diagonal forms of degree d not power of 2 over any quadratic extension of \mathbb{Q}_2 .

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