
MR1111140 (92m:17053) 17D92 92D10**Cortés, Teresa (E-ZRGZ)****Classification of 4-dimensional Bernstein algebras.***Comm. Algebra* **19** (1991), *no. 5*, 1429–1443.

This paper contains an exhaustive and very interesting classification, up to isomorphism, of the 4-dimensional Bernstein algebras over a commutative field K of characteristic not 2. A Bernstein algebra [see Yu. I. Lyubich, Russian Math. Surveys **26** (1971), no. 5, 51–124; [MR0446581 \(56 #4906\)](#); P. Holgate, J. London Math. Soc. (2) **9** (1974/75), 612–623; [MR0465270 \(57 #5175\)](#)] A is a finite-dimensional commutative nonassociative algebra over a field K with a nontrivial homomorphism $w: A \rightarrow K$ (i.e. a baric algebra) in which the identity $(x^2)^2 = \omega(x)^2 x^2$ is satisfied for all $x \in A$. *Alberto Pérez de Vargas*

© Copyright American Mathematical Society 1992, 2015