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**Automorphisms and derivations of a Bernstein algebra over  $k$ ,  $\text{char } k = 2$ .**

(Spanish summary)

2nd Chilean Symposium on Mathematics, I (Spanish) (Talca, 1985).

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If  $A$  is a Bernstein algebra over a field  $K$  with  $\text{char } K = 2$ , characterized by the decomposition  $A = Ke + \ker w$  for the single idempotent  $e$  and the single weight homomorphism  $w$ , the authors first state a necessary and sufficient condition for a linear transformation of  $A$  to be a derivation of  $A$ , defining a morphism  $f$  of Lie algebras from  $\text{Der}_K(A)$  into  $\text{End}_K(\text{Ker } w)$ . This last result allows the authors to prove that if  $f$  is injective,  $w \cdot d = 0$  for every derivation  $d$  and  $\text{char } K = 2$ .

In another paper [Proc. London Math. Soc. (3) 58 (1989), no. 1, 51–68; [MR0969546 \(90b:17047\)](#)] the authors extend their results to Bernstein algebras over a field  $K$ , of arbitrary characteristic.

{For the entire collection see [MR1000002 \(90d:00044\)](#)}.

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