MR732196 (85g:17014) 17D92 92A10
Micali, Artibano (F-MONT2); **Campos, Tânia M. M.**; **Costa e Silva, Maria C.**; **Ferreira, Silvia M. M.**; **Costa, Roberto C. F.**

Dérivations dans les algèbres gamétiques. (French) [Derivations in gametic algebras]

Comm. Algebra **12** (1984), *no. 1-2,* 239–243.

The author shows that the Lie algebra of derivations of the gametic n-ploidy algebra is isomorphic to the two-dimensional nonabelian Lie algebra. The computations are not done in detail.

It appears to the reviewer that the work would be simplified if the author used the canonical basis of the algebra as described by the reviewer [Proc. Edinburgh Math. Soc. 12 (1960/61), 41–53; MR0124367 (23 #A1680)] which exhibits the polyploidy algebra as a genetic algebra. (The reviewer actually carried through the computations using that basis.) There is a minor misprint in the last paragraph on page 241. The minus in the equality $e_{m-1}e_m = \frac{1}{2}(e_{m-1} - e_m)$ should be a plus.

At any rate, the main result of this paper is one more example of the fact that algebras arising in genetics tend to have nice algebraic properties. *H. Gonshor*