

MR1747379 (2001b:17047) 17D92

Mallol, Cristián (RCH-FRN); Suazo, Avelino

Une classe d'algèbres pondérées de degré 4. (French. French summary) [A class of weighted algebras of degree 4]

Comm. Algebra **28** (2000), no. 4, 2191–2199.

Summary (translated from the French): “We analyze the structure of algebras satisfying $(x^2)^2 = \alpha\omega(x)x^3 + \beta\omega(x)^2x^2 + \gamma\omega(x)^3x$. These algebras generalize, among other classically studied weighted algebras, the Bernstein and Etherington algebras.”

Saïd Benayadi

References

1. M.T.Alcalde, C.Burgueño, A.Labra, A.Micali, *Sur les algèbres de Bernstein*. Proc. London Math. Soc. **58** (3), 51–68, (1989). [MR0969546 \(90b:17047\)](#)
2. C. Burgueño, C. Mallol, *Morphismes de Peirce et orthogonalité dans les algèbres de Bernstein*. Linear Algebra and its Applications, **219**, (1995), 179–186. [MR1327399 \(96a:17027\)](#)
3. R. Costa, *Principal train algebras of rank 3 and dimension < 5*. Proc. Edinburgh Math. Soc., **33** (1990), 61–70. [MR1038765 \(90m:17043\)](#)
4. I.M.H. Etherington, *Genetics Algebras*. Proc. Roy. Soc. Edinburgh **59**, 242–258, 1939. [MR0000597 \(1,99e\)](#)
5. P. Holgate, *Genetic algebras satisfying Bernstein stationarity principle*. J. London Math. Soc. (2) **9** (1975), 613–623. [MR0465270 \(57 #5175\)](#)
6. S. González, C. Martínez, *Idempotent elements in a Bernstein algebra*. J. London Math. Soc. (2) **42** (1990), 430–436. [MR1087218 \(91m:17048\)](#)
7. A.Labra, C. Mallol, A.Suazo, *Power-associative Bernstein algebras of order 2*. Nova Journal of Algebra and Geometry Vol. **3**, N 3, pp. 83–96, 1994. [MR1332940 \(96e:17073\)](#)
8. C. Mallol, A. Micali, M. Ouattara, *Sur les Algèbres de Bernstein IV*. Linear Algebra and its Applications, **158**: 1–26 (1991). [MR1126433 \(93c:17062\)](#)
9. C. Mallol, R. Varro, *Les algèbres de Mutation*. Non associative Algebra and its Applications, Kluwer Academic Pub. 245–251, Amsterdam 1994. [MR1338189 \(96e:17074\)](#)
10. C. Mallol, R. Varro, *A propos des algèbres vérifiant $x^{|3|} = \omega(x)^3x$* . Linear Algebra and its Applications, **225**: 187–194 (1995). [MR1341077 \(96h:17044\)](#)
11. C. Mallol, *Extensions Pondérées d'Algèbre*. Algebras. Groups and Geometries, 14–1, 41–48, 1997. [MR1669236](#)
12. S. Walcher, *Algebras with satisfy a train equation for the first three plenary powers*. Arch. Math (Basel) **56**: 547–551 (1991). [MR1106496 \(92k:17053\)](#)
13. A. Worz-Buzekros, *Algebras in Genetics*. Lecture Notes in Biomathematics, Vol. **36**, Springer-Verlag, Berlin/New York, 1980. [MR0599179 \(82e:92033\)](#)
14. K.A.Zhevlakov, A.M.Slinko, I.P.Shestakov, A.I.Shirshov, *Rings that are Nearly Associative*. Academic Press, New York, (1982). [MR0668355 \(83i:17001\)](#)

Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.