SOME RESULTS ON BN_1-ALGEBRAS

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ABSTRACT. BN_1-algebras have been introduced by C. B. Kim and H. S. Kim. Here we give an equivalent definition of BN_1-algebras and show that every BN_1-algebra is a loop. Moreover we prove that an algebra is BN_1-algebra if and only if it is a commutative BG-algebra. We also prove that the class of associative BN_1-algebras coincides with the class of Coxeter algebras. Finally we indicate the interrelationships between BN_1-algebras and several algebras.