

1086-16-1235

**John Voight\*** (jvoight@gmail.com), Department of Mathematics, University of Vermont, 16 Colchester Ave, Burlington, VT 05401. *The Brauer monoid of quaternion rings.*

The 2-torsion of the Brauer group of a field of characteristic not 2 is generated by quaternion algebras, by a theorem of Merkurjev. We consider a monoid extension of this subgroup: it is generated by a larger class of quaternion rings, allowing for degeneration, and is therefore closed under taking limits. (Received September 20, 2012)