

1012-16-209

**Tom Cassidy\***, Mathematics Department, Bucknell University, Lewisburg, PA 17837, and **Peter Goetz** and **Brad S. Shelton**. *Generalized Laurent polynomial rings as quantum projective 3-spaces.*

We discuss two new families of 4 dimensional Artin-Schelter regular algebras. Since these were constructed as sub-rings of skew Laurent polynomial rings, we call these algebras generalized Laurent polynomial rings. We calculate the center of one of these families and show that in general the algebras are not finite over their centers. We also explore the point schemes of these algebras and see that the automorphism of the scheme can have finite order even when the algebra is not finite over its center. (Received September 20, 2005)