

1135-16-238

Charlotte Ure* (urecharl@math.msu.edu), Department of Mathematics, Michigan State University, 619 Red Cedar Rd., East Lansing, MI MI 48824, and **Rajesh Kulkarni**. *The binary cubic generic Clifford algebra.*

Let k be a field of characteristic not 2 or 3. Let V be a 2-dimensional vectorspace over k , and let $k \langle V \rangle$ be its tensor algebra. The binary cubic generic Clifford algebra \mathcal{C} is the quotient of $k \langle V \rangle$ by the ideal generated by elements of the form $[X, Y^3]$ with X and Y in V . This algebra is known to be AS regular, strongly noetherian, Auslander regular and Cohen-Macaulay. Note that for any binary cubic form, the Clifford algebra associated to f is a homomorphic image of \mathcal{C} . Other ring theoretic properties of \mathcal{C} will be examined on this poster. It will be shown that the center of \mathcal{C} is isomorphic to the coordinate ring of a relative quasiprojective curve over the 4-dimensional affine space that is elliptic over an open subset. This is work in progress. (Received August 15, 2017)