1012-14-179 Adam Nyman* (nymana@mso.umt.edu), University of Montana, Department of Mathematical Sciences, Math Building, Missoula, MT 59812. Invariants of arithmetic noncommutative $\mathbb{P}^{1} s$. Preliminary report.
Let $k \subset K$ be an extension of fields. An arithmetic noncommutative $\mathbb{P}^{1}$ is a noncommutative space of the form $\operatorname{Proj} S(V)$, where $V$ is a free rank $2 k$-central two-sided vector space over $K$ and $S(V)$ is the noncommutative symmetric algebra associated to $V$. We describe isomorphism invariants, related to Hilbert polynomials, of certain arithmetic noncommutative $\mathbb{P}^{1}$ s. (Received September 19, 2005)

