

**Meeting:** 999, Nashville, Tennessee, SS 6A, Special Session on Local and Homological Algebra

999-13-141      **Anurag K Singh\*** ([singh@math.gatech.edu](mailto:singh@math.gatech.edu)), School of Mathematics, 686 Cherry Street,  
Georgia Institute of Technology, Atlanta, GA 30332-0160. *The F-signature of an affine semigroup  
ring.*

We prove that the F-signature of an affine semigroup ring of positive characteristic is a rational number, and describe a method for computing this number. We use this method to determine the F-signature in some examples. (Received August 19, 2004)