

Meeting: 1004, Bowling Green, Kentucky, SS 15A, Special Session on Recent Advances in Noncommutative Algebra

1004-16-127 **Edward S Letzter*** (letzter@math.temple.edu), Department of Mathematics, Temple University, Philadelphia, PA 19122. *On the parameterization of primitive ideals in affine PI algebras.* Preliminary report.

Applying the fundamental results of Artin and Procesi, we construct an open bijection from the whole primitive spectrum of an arbitrary affine PI algebra, over an algebraically closed field, onto a constructible subset of the maximal spectrum of a suitable affine commutative trace ring. We also prove that the primitive spectrum is the continuous image of an affine variety. (Received January 21, 2005)