

1116-16-1289 **Lance W. Small*** (lwsma11@ucsd.edu), Department of Mathematics, UCSD, La Jolla, CA
92093. *Affine PI Algebras, Representability and the Hopfian Property.*

The following work in joint with Louis Rowen.

An algebra (over a field) is Hopfian if every onto algebra endomorphism is an automorphism; an affine algebra is a finitely generated PI; an algebra is representable if it can be embedded in matrices over a commutative algebra. We investigate the relationship between the Hopfian property and representability. For instance, a representable affine algebra is Hopfian though there are Hopfian affine PI algebras that are not representable. (Received September 18, 2015)