

1067-55-1664

**Michael P Allocca\*** ([alloccam2@scranton.edu](mailto:alloccam2@scranton.edu)), University of Scranton, Department of Mathematics, St. Thomas Hall 160, Scranton, PA 18510. *A Finite Dimensional  $L_\infty$  Module.*

$L_\infty$  algebras are topics of current research. Representations of these structures are robust in nature and have yet to be explored in depth.  $L_\infty$  modules provide an alternative but equivalent way to describe representations. Concrete examples, however, remain elusive. We provide an example of a finite dimensional  $L_\infty$  module and discuss its implications. (Received September 21, 2010)