1054-17-296   **Prasad Senesi*** (`senesi@cua.edu`), Department of Mathematics, Catholic University of America, 620 Michigan Ave NE, Washington, DC 20064. *Finite-dimensional irreducible representations of equivariant map algebras.*

Let $\mathfrak{g}$ be a finite-dimensional simple Lie algebra and A an affine algebraic variety defined over an algebraically closed field of characteristic 0. Let G be a finite group which acts via automorphisms upon $\mathfrak{g}$ and A. The Lie algebra of regular maps from A to $\mathfrak{g}$ which are equivariant under the the action of G is called an *equivariant map algebra*. Examples of such algebras include current algebras, multiloop algebras (in particular, the untwisted loop algebras $\mathfrak{g} \otimes k\left[t^{\pm 1}\right]$ and their twisted subalgebras), and the Onsager algebras.

In this talk we will classify the finite–dimensional irreducible representations of an arbitrary equivariant map algebra, and describe some conditions which ensure that all such representations are given by evaluation representations of $\mathfrak{g}$.

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1