

Department of Mathematics, BGU

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# AGNT

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*On Wednesday, June 5, 2019*

*At 15:10 – 16:25*

*In -101*

DAN EDIDIN (UNIVERSITY OF MISSOURI, COLUMBIA)

will talk about

## **A GIT characterization of cofree representations**

ABSTRACT: Let  $V$  be a representation of a connected reductive group  $G$ . A representation is cofree if  $k[V]$  is a free  $k[V]^G$  module. There is a long history of work studying and classifying cofree representations of reductive groups. In this talk I present a simple conjectural characterization of cofree representations in terms of geometric invariant theory. Matt Satriano and I have proved the conjecture for irreducible representations of  $SL_n$  as well as for torus actions. I will give motivation for the conjecture and explain the techniques which can be used for its verification. This talk based on joint work with Matt Satriano.