

1095-17-188

Dimitar Grantcharov* (grandim@uta.edu), Department of Mathematics, UT Arlington, Arlington, TX 76019, and **Vera Serganova**. *Weight modules of algebras of twisted differential operators on the projective space.*

In this talk we will discuss blocks of categories of weight and generalized weight modules of algebras of twisted differential operators on \mathbb{P}^n . Necessary and sufficient conditions for these blocks to be tame and to be Koszul are provided. We also establish equivalences of categories between these blocks and categories of bounded and generalized bounded weight $\mathfrak{sl}(n+1)$ -modules in the cases of nonintegral and singular central character. (Received September 09, 2013)