

1126-13-215

Uwe Nagel* (uwe.nagel@uky.edu), Department of Mathematics, University of Kentucky, 715
Patterson Office Tower, Lexington, Lexington, KY 40506. *Equivariant Hilbert Series*.

Consider a homogenous ideal in a polynomial ring in countably many variables that is invariant under a suitable action of the monoid of strictly increasing functions. Recently, it has been shown that such an ideal is generated by finitely many orbits and that it admits a rational equivariant Hilbert series. Moreover, a description of the denominator of this series has been given. If the ideal is generated by the orbit of a monomial there is an explicit formula of the Hilbert series. It suggests that the general description of the denominator is rather efficient.

This is based on joint work with Tim Römer and Sema Güntürkün. (Received January 13, 2017)