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**David A. Jorgensen, Liana M. Şega\*** ([segal@umkc.edu](mailto:segal@umkc.edu)) and **Peder Thompson**. *Laurent series and asymptotic behavior of Ext over graded complete intersections*. Preliminary report.

Let  $R$  be a graded commutative ring generated over a field by finitely many homogeneous elements of positive degree. Work of Avramov, Buchweitz and Sally shows that, under certain assumptions, the Laurent series expansions around 1 of the Hilbert series of two graded  $R$ -modules and those of some of their Ext modules are related. When  $R$  is a complete intersection, we show that such relations are connected to the asymptotic behavior of the Ext modules. (Received January 21, 2020)