

1139-13-416

**Sabine El Khoury\*** (se24@aub.edu.lb) and **Andrew Kustin**. *The structure of Gorenstein-linear resolutions of Artinian algebras.*

Let  $S = k[x_1, \dots, x_d]$  be the polynomial ring over a field  $k$ , and  $I$  a homogenous grade  $d$  Gorenstein linearly presented ideal generated by forms of degree  $n$ . Assume that  $3 \leq d$  and  $2 \leq n$ . We give the structure of the minimal homogeneous resolution  $\mathbf{B}$  of  $S/I$  by free  $S$ -modules, and describe explicitly the maps in terms of the coefficients of the Macaulay inverse system of  $I$ . This is a joint work with Andrew Kustin. (Received February 18, 2018)