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The Koszul Complex Blows Up a Point

This is a joint work with Ragnar-Olaf Buchweitz. In this report, we show that the endomorphism algebra of the syzygy modules in the tautological Koszul complex is of finite global dimension and its derived category is equivalent to that of quasi-coherent sheaves on affine space blown up in a point. We also give a succinct description of the resulting quiver.