Absolutely Koszul algebras
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Abstract: The linearity defect measures how far a module is from having linear resolution. Over a local ring, any module with finite linearity defect has a rational Poincare series. Absolutely Koszul algebras are standard graded rings, over which any finite graded module has a finite linearity defect. We will discuss the classification of absolutely Koszul algebras among Segre products and Veronese subrings of polynomial rings. This comes in part from joint work with Conca, Iyengar and Roemer.