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**Di-Ming Lu\*** ([dmlu@zju.edu.cn](mailto:dmlu@zju.edu.cn)), Department of Mathematics, Zhejiang University, Hangzhou, Zhejiang 310027, Peoples Rep of China. *Koszulity of algebras with non-pure resolutions*. Preliminary report.

We discuss certain homological properties of graded algebras whose trivial modules admit non-pure resolutions. Such algebras include both of Artin-Schelter regular algebras of types (12221) and (13431). The Koszul dual of the algebras are described by using  $A$ -infinity language. (Received July 31, 2008)