

1078-16-176

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Peoples Rep of China. *Twisted Calabi-Yau Algebras and AS-regular (Hopf) Algebras.*

Some AS regular graded algebras and AS regular Hopf algebras can be constructed as iterated Ore extensions of lower dimensional algebras. We will prove that iterated Ore extensions preserve the twisted Calabi-Yau property or AS-regularity and describe the relation between the Nakayama automorphisms explicitly. (Received December 06, 2011)