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Craig C Tingey* (tingey@noether.uoregon.edu), Department of Mathematics, University of Oregon, Fenton Hall, Eugene, OR 97403-1222. *Quadratic Artin-Schelter Regular Algebras*. Preliminary report.

Using Koszul algebra techniques, we construct new examples of quadratic Artin-Schelter regular algebras. This construction generalizes the construction of regular Clifford algebras. We also investigate the non-commutative geometry related to the algebras obtained. (Received October 02, 2000)