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Sebastian Zwicknagl* (szwickna@uoregon.edu), Department of Mathematics, University of Oregon, Eugene, OR 97403. *Flat Braided Symmetric Algebras*.

We introduce braided symmetric algebras over a module V of the quantized universal enveloping algebra and $U_q(\mathfrak{g})$, where \mathfrak{g} is a reductive Lie-algebra. We will give a conjectural classification of all finite-dimensional $U_q(\mathfrak{g})$ -modules V whose braided symmetric algebra can be viewed as flat deformations of the (classical) symmetric algebra over the semi-classical limit of V . (Received September 27, 2005)