1056-17-1394 **Arkady Berenstein**, Department of Mathematics, University of Oregon, Eugene, OR 97403, and **Jacob Greenstein***, Department of Mathematics, University of California Riverside, 900 University avenue, Riverside, CA 92521. *On quantum foldings.* Preliminary report.

A classical result in Lie theory stipulates that every finite dimensional simple Lie algebra $\mathfrak{g}$ which is not of type ADE can be constructed as the fixed point subalgebra for a diagram automorphism σ of a simple Lie algebra $\mathfrak{s}$ of type ADE. This construction does not have a direct quantum analogue. The aim of the present talk is to explain how to construct a homomorphism of associative algebras from a subalgebra in the algebra of fixed points for σ of the upper triangular part of $U_q(\mathfrak{s})$ onto the quantized enveloping algebra of the upper triangular part of $U_q(\mathfrak{g}^\vee)$, where $\mathfrak{g}^\vee$ is the Langlands dual of $\mathfrak{g}$. (Received September 21, 2009)