1048-05-61 **Gregg Musiker**, **Ralf Schiffler** and **Lauren Williams\*** (lauren@math.harvard.edu), Department of Mathematics, Harvard University, 1 Oxford Street, Cambridge, MA 02138. *Positivity results for cluster algebras.* 

We give formulas for cluster variables with principal coefficients for a large class of cluster algebras coming from surfaces. In particular, this proves the positivity conjecture of Fomin and Zelevinsky for cluster algebras of classical types. (Received January 20, 2009)