1089-13-184   **Andrei Zelevinsky*** (`andrei@neu.edu`), Department of Mathematics, Northeastern University, 360 Huntington Avenue, Boston, MA 02115. *Positivity and tameness in rank 2 cluster algebras.* Preliminary report.

In a joint work in progress with Kyungyong Lee and Li Li, we study the relationship between the positivity property in rank 2 cluster algebras, and the property of such an algebra to be tame. More precisely, we show that a rank 2 cluster algebra has a basis of indecomposable positive elements if and only if it is of finite or affine type. This statement seems to disprove one of the conjectures by Fock and Goncharov.

The talk will be totally elementary, does not assume any preliminary knowledge of cluster algebras, and should be accessible to graduate students. (Received February 14, 2013)