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Ethan Hurst, Kyungyong Lee* (klee94@ua.edu), **Li Li** and **George D Nasr**. *A new approach to the two dimensional Jacobian conjecture*. Preliminary report.

The Jacobian conjecture concerns the polynomial automorphisms. Motivated by cluster algebras, we consider the joint divisibility conditions associated with the Jacobian matrix whose determinant is a constant. By doing this, we get a substantially better understanding on the two dimensional case. (Received September 21, 2021)