

We extend the classical result by Horn and Jackson on the asymptotic stability of complex-balanced equilibria of mass-action systems. As it turns out, all dynamical systems are asymptotically stable that can be embedded in certain "binomial differential inclusions". For the proof, we use a new decomposition of the Laplacian matrix which allows to write weakly reversible mass-action systems as sums of binomial terms (just like reversible systems). In particular, this suggests to consider regions in the positive orthant with given monomial evaluation orders ("bananas") and corresponding polyhedral cones in logarithmic coordinates (defining the differential inclusion).