

Meeting: 1003, Atlanta, Georgia, SS 26A, AMS-SIAM Special Session on Dynamic Equations on Time Scales; Integer Sequences and Rational Maps, I

1003-11-1298 **Thomas J Tucker*** (ttucker@math.rochester.edu), Department of Mathematics, Hylan Building, University of Rochester, Rochester, NY 14627, and **Lucien Szpiro**, Ph. Program in Mathematics, CUNY Graduate Center, 365 Fifth Avenue, New York, NY 10016. *Symmetry between canonical heights of dynamical systems.*

Let f and g be polynomial maps on the complex sphere. We will show that the limit of the f -canonical heights of the g -periodic points is equal to the limit of the g -canonical heights of the f -periodic points. We will relate these limits to the sup of the difference between the f -canonical and g -canonical heights and to the Zhang adelic pairing on the corresponding line bundles. (Received October 04, 2004)