Nicholas A Battista* (nab4047@rit.edu), School of Mathematical Sciences, 85 Lomb Memorial Drive, Rochester, NY 14623, and Michael A Radin (michael.radin@rit.edu), School of Mathematical Sciences, 85 Lomb Memorial Drive, Rochester, NY 14623. Monotonic and Periodic Character of solutions of the Rational Difference Equation $x_{n+1}=\frac{A_{n} X_{n-1}}{1+X_{n}+X_{n-1}}$. Preliminary report.
We investigate the monotonic and periodic character of the nonnegative solutions of the rational difference equation

$$
x_{n+1}=\frac{A_{n} X_{n-1}}{1+X_{n}+X_{n-1}}, n=0,1, \ldots
$$

where $\left\{A_{n}\right\}_{n=0}^{\infty}$ is a periodic sequence of positive real numbers. (Received August 19, 2009)

