1139-39-155   **Y Kostrov***, kostrovy@mville.edu, and **Z Kudlak** and **P Vernon**. *On a First Order Rational System of Difference Equations with Non-Constant Coefficients.* Preliminary report.

We investigate the boundedness character of nonnegative solutions of the following nonautonomous rational system

$$\begin{cases} x_{n+1} = \frac{\alpha_n + \gamma_n x_n}{\beta_n x_n + y_n} \\ \\ y_{n+1} = \frac{a_n + b_n x_n + c_n y_n}{A_n + B_n x_n + C_n y_n} \end{cases} \qquad \text{for } n = 0, 1, \ldots$$

with coefficients that are nonnegative sequences and initial conditions which are non- negative real numbers, such that the denominators are always positive. We present several theorems which establish the limiting behaviors of special cases of the system when the coefficients are periodic, or bounded above and below by positive constants. (Received February 07, 2018)