1139-39-625 **M. R.S. Kulenovic*** (mkulenovic@uri.edu), Lippitt Hall 202D, University of Rhode Island, Kingston, RI 02881, **Naida Mujic**, University of Sarajevo, Sarajevo, Bosnia-Herzegovina, and **Esmir Pilav**, University of Sarajevo, Sarajevo, Bosnia-Herzegovina. *Period-Doubling and Naimark-Sacker Bifurcations of Certain Second Order Quadratic Fractional Difference Equation.*

We investigate the Period-Doubling and Naimark-Sacker Bifurcations of the equilibrium of the difference equation

$$x_{n+1} = \frac{\gamma x_{n-1}^2 + \delta x_n}{C x_{n-1}^2 + x_n}$$

where the parameters γ, δ, C are positive numbers and the initial conditions x_{-1} and x_0 are arbitrary nonnegative numbers such that $x_{-1} + x_0 > 0$. (Received February 20, 2018)