

1067-01-1160      **Tinne Hoff Kjeldsen\*** (thk@ruc.dk), Roskilde University, Universitetsvej 1, P.B. 260, 4000  
Roskilde, Denmark. *Shades of modernism in understandings of applied mathematics: von  
Neumann's economic system of equations and Rashevsky's model of cellular multiplication.*

The question whether shades of modernism can be found in applied mathematics in the early twentieth century is discussed based on an analysis of John von Neumann's paper on an economic system of equations from 1937, and Nicolas Rashevsky's talk on physico-mathematical aspects of cellular multiplication from 1934. An analytical model of the modelling process will be presented and used to analyse some reactions from the respective communities of economists and biologists. (Received September 19, 2010)