# On the Mathematical Modeling of the Infectious Diseases

Aleksandre Tkeshelashvili

Presenter will discuss Kermack-McKendrick Mathematical Model of the infectious diseases and its some generalizations considering the rate of natural increase and migration. On the grounds of analyzing this model it is possible to predict the ooutbreak of the disease. In particular, the important findings will be delivered concerning causes and the means of preventing recent outbreak of Measles in Georgia.