

**The conference is supported by the  
National Laboratory for Health Security project  
RRF-2.3.1-21-2022-00006**

# Stability preserving in parameter dependent systems

SZILVIA GYÖRGY

Eötvös Loránd University, Department of Numerical Analysis, Hungary  
gyorgyszilvia@inf.elte.hu

In this talk the asymptotic stability of equilibrium solutions and the orbital stability of periodic solutions of parameter dependent differential equations are studied. We assume that the considered solution has some type of stability property with a certain value of the parameters and investigate the question of how much the parameters can be changed in order to guarantee the preservation of the stability.