



Es wird am
Dienstag, dem 6. Mai 2014,
folgender Vortrag gehalten:

Prof. Dr. Denys KHUSAINOV
(Taras-Schewtschenko-Nationaluniversität Kiew)

*„Representation of Solutions to a Wave Equation
with a Single Constant Delay“*

Zeit: 17:00 Uhr

Raum: D 431

Interessenten sind herzlich willkommen!

M. Pokojovy

Abstract:

In the present talk, we consider a linear second order evolution equation with distributed parameters and constant coefficients with a single constant delay. Equations of this type are used to study numerous control problems for oscillatory systems, various population dynamics phenomena with hyperbolic flux, etc. The construction and analysis of solutions to linear partial differential equations of hyperbolic type with pure delay can be performed with the aid of special functions referred to as delayed sine and cosine functions. As opposed to this, major technical difficulties arise when treating equations incorporating terms both with and without delay. Only few constructive results are known for equations of this kind. Here, we propose an iterative procedure to obtain solutions.