

4:00 PM, MONDAY, APRIL 2, 2007, BOYD 304

Speaker: **Prof. Semyon Yakubovich**, Department of Pure Mathematics, University of Porto, Porto, Portugal

Title: **An introduction to the theory of the Kontorovich - Lebedev transformation**

The goal of this talk is to give an introduction and elements of theory of the Kontorovich-Lebedev transformation (1938), which is a basic example of non-convolution transforms in the classical sense. It is associated with the modified Bessel functions as the kernel and an integration in the inversion is realized with respect to a parameter of this function. We consider its mapping L_1 , L_2 - properties, prove the Parseval and Plancherel theorems and construct the convolution operator in the corresponding Banach normed ring.

(Contact person: Dr. Vu Kim Tuan, 678-839-4135)