

## EINLADUNG ZUM MATHEMATISCHEN KOLLOQUIUM

Es spricht

**Prof. Dr. V. Derkach**  
(Staatliche Universität Donetsk, Ukraine)

zum Thema:

**„Pade approximation and generalized Jacobi matrices“**

**Abstract:**

Rational approximation of meromorphic functions becomes very popular because of the high rate of convergence. In the present talk the Pade conjecture about convergence of diagonal Pade approximants for different classes of functions will be discussed. It will be shown that the Schur algorithm for solving of the indefinite moment problem leads to a specific class of generalized Jacobi matrices. This allows to prove the Pade conjecture in the class of generalized Nevanlinna functions by reducing it to the problem of convergence of resolvents of generalized Jacobi matrices.

**Donnerstag, 7. Januar 2016, 17:00 Uhr, Raum C 113 im Curiebau  
(Kaffee 16:30 Uhr im Raum C 325)**

Alle Interessenten sind herzlich eingeladen.

Ilmenau, 18.12.2015

Die Hochschullehrer des Institutes