EINLADUNG
ZUM MATHEMATISCHEN KOLLOQUIUM

Es spricht

Jambul Yusupov

(Turin Polytechnic University in Tashkent, Uzbekistan)

zum Thema:

„Transparent quantum graphs: An effective model for the construction of ballistic quantum networks"

Abstract:
Quantum graphs attracted much attention in different contexts as the models of branched quantum structures and nanoscale networks.

Modeling wave and particle dynamics in such systems is reduced to solving of different PDEs with the boundary conditions (BCs) given on metric graphs. To be a quantum graph, such BCs should provide self-adjointness of a differential (e.g., Schrödinger, Dirac, etc.) operator on a graph.

In this talk the problem of quantum graph with transparent branching points (vertices) is considered. In particular, extension of the well-known absorbing boundary conditions to the Schrödinger operator on metric graphs is discussed.

Freitag, 26. Oktober 2018, 14:30 Uhr, Raum C 325 im Curiebau
(Kaffee & Tee, 14:30 Uhr im Raum C 325)

Alle Interessierten sind herzlich eingeladen.

Ilmenau, 24.10.2018 Die Hochschullehrer des Institutes