

EINLADUNG ZUM MATHEMATISCHEN KOLLOQUIUM

Es spricht

Herr Prof. Dr. Bernhard Maschke

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Zum Thema:

**„Hamiltonian systems defined by reciprocal differential operators:
port variables and energy balance equations“**

Abstract:

In this talk, we present an extension of boundary port-Hamiltonian systems in order to include Hamiltonian functionals which are defined by differential operators. Therefore, the recently introduced definition of port-Hamiltonian systems defined on Lagrange subspaces is used. In this case, the system is no more defined by a functional (the Hamiltonian) but instead by reciprocal constitutive relations between the state and co-state variables which geometrically define Lagrange subspaces or submanifolds of the co-tangent bundle of the state space. We restrict our talk to linear port-Hamiltonian systems defined on one-dimensional spatial domains.

Dienstag, 16. Mai 2023, 15:00 Uhr, Curie-Hörsaal

Alle Interessierten sind herzlich eingeladen!

Ilmenau, 04.05.2023

Das Institut für Mathematik