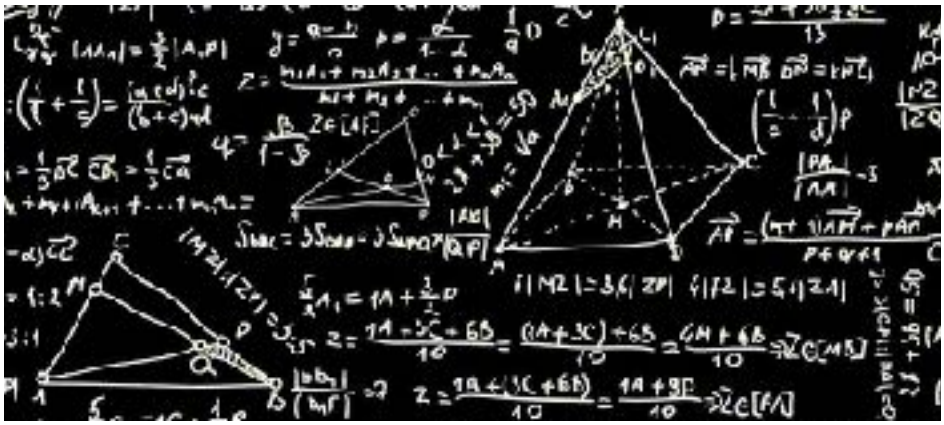
APRIL

06

17:00



Mathematik Kolloquium Innsbruck

Roland Schnaubelt

Karlsruher Institut für Technologie (KIT)

Polynomial Stability of Two Coupled Strings

Starting with the case of ordinary differential equations, we first discuss the decay of solutions to damped linear evolution equations. We are mostly interested in convergence to 0 with exponential or polynomial rates. At least for problems in Hilbert spaces, such a decay can nicely be characterized by estimates on the resolvent of the (given) operator A governing the evolution equation.

As an application we treat a system of one dimensional wave equations which are damped by a coupling at the boundary. Astonishingly, here the longtime behavior heavily depends on number theoretic properties of the quotient of the two wave speeds. This is joint work with Lukasz Rzepnicki (Torun).

Donnerstag 6. April 2017, 17:00 Uhr, HSB 6

Gäste und Studierende sind herzlich willkommen!

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