



Mathematisches Kolloquium

Am **Montag**, dem 12. Dezember 2022, spricht um 16 Uhr c.t. im Hörsal IV der Fachrichtung Mathematik, Gebäude E2.4, [Teams-Link](#),

Prof. Dr. Orr Shalit,
Technion (Israel)

über das Thema:

Dilation theory and its applications

Abstract:

Dilation theory is a collection of results, tools and techniques in operator theory that all stem from one big idea: you can learn a lot about an operator by viewing it as a “part of” of another, well understood operator. I will try to explain this big idea by way of examples. I will first discuss the most basic and classical dilation theorems and their applications. Then I will tell you about some recent results in dilation theory, and how these results interact with representations of C^* -algebras, noncommutative tori, and the Heisenberg commutation relations.

Der Gast wird von Prof. Dr. Michael Hartz betreut.

Alle Interessenten und Interessentinnen sind zum Vortrag herzlich eingeladen. Der Vortrag findet im **hybriden Format** statt.

Die Dozenten der Mathematik