

Im

## Oberseminar Analysis

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einen Vortrag zum Thema

### **Problems related to solid sequence spaces derived from an infinite matrix and a solid sequence space**

Abstract:

Let  $s$  denote the vector space of all scalar sequences. If  $A$  is an infinite matrix with non-negative entries and  $\lambda$  is a solid subspace of  $s$ , then  $sol - A^{-1}(\lambda) = \{x \in s : A|x| \in \lambda\}$  is also a solid subspace of  $s$  which, under certain conditions on  $A$  and  $\lambda$ , inherits a solid topological vector space topology from any such topology on  $\lambda$ .

Letting  $\Lambda_0 = \lambda$  and  $\Lambda_m = sol - A^{-1}(\Lambda_{m-1})$  for  $m > 0$ , Polat and Peter [1] derived an infinite sequence  $\Lambda_0, \Lambda_1, \Lambda_2, \dots$  of solid subspaces of  $s$  from the inputs  $A$  and  $\lambda$ . For  $A$  and  $\lambda$  confined to certain classes, they asked many questions about this derived sequence. In this talk, we answer a few of them.

Datum: **Donnerstag, 23. Juni 2022**

Zeit: **15:15 Uhr**

Raum: **WIL C 129**

Der Vortrag ist zeitgleich auch über das Videokonferenzsystem „Zoom“ abrufbar.

Der virtuelle Raum ist über folgenden, bereits bekannten Link erreichbar:

<https://tu-dresden.zoom.us/j/89887698744?pwd=TVR3djhXNkv2U1ZFMTJ3czBOd3c4dz09>

Meeting ID: 898 8769 8744, Passcode: @8%qq2

Ansprechpartner: Prof. Dr. Ralph Chill

Alle Interessenten sind herzlich eingeladen.