

Einladung zum Kolloquiumsvortrag

Am Freitag, dem 2. September 2022 um 16.15 Uhr spricht Frau Prof. Dr. Agnieszka Chlebowicz (Rzeszów University of Technology, Poland) zum Thema

Measures of Noncompactness in Function Spaces: Applications

Abstract. This is a continuation of the previous talk. In contrast to classical measures of noncompactness which refer to spaces of real functions on compact intervals, we will discuss some new measures of noncompactness related to spaces of

- functions on the halfaxis $[0, \infty)$ and
- functions with values in Banach spaces.

Concerning the first requirement, a useful device is to “exhaust” the halfaxis by a sequence of compact intervals and consider some additional characteristic which takes into account the asymptotic behavior of a bounded set of functions. The second assumption allows us to treat, for instance, infinite systems of nonlinear integral equations. Existence of solutions for such systems is important in several problems of applied nonlinear analysis which may be described by infinite systems of boundary value problems.

Der Vortrag findet im Raum SE 30 des Mathematischen Instituts Emil-Fischer-Str. 30 statt. Zuvor gibt es Kaffee und Tee im 3. Stock. Alle Institutsmitglieder sind herzlich eingeladen.

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