SEMINARVORTRAG

Das Institut für Mathematik lädt zu folgendem Vortrag ein:

Rafał Zalas

Technion–Israel Institute of Technology

The Optimal Error Bound for the Method
of Simultaneous Projections

In this talk we find the optimal error bound (smallest possible estimate, independent of the starting point) for the linear convergence rate of the simultaneous projection method applied to closed linear subspaces in a real Hilbert space. We achieve this by computing the norm of an error operator which we also express in terms of the Friedrichs number. We compare our estimate with the optimal one provided for the alternating projection method by Kayalar and Weinert (1988). Moreover, we relate our result to the alternating projection formalization of Pierra (1984) in a product space. Finally, we adjust our results to closed affine subspaces and put them in context with recent dichotomy theorems. This is joint work with Simeon Reich (Technion, Israel).

Zeit: **Montag, den 4. Dezember 2017 um 10.15 Uhr**

Ort: **Bauing.-Gebäude, Technikerstraße 13, 7. Stock, Seminarraum 734**

Gäste sind herzlich willkommen!

Christian Bargetz

Technikerstraße 13/7
A-6020 Innsbruck
Telefon: +43 512 507 53801

E-Mail: mathematik@uibk.ac.at
http://www.uibk.ac.at/mathematik/
Fax: +43 512 507 53899