



## VORTRÄGE

15:45 Uhr Kaffeejause

Mittwoch, 12. Oktober 2016 von 16:15 Uhr bis 17:00 Uhr, HS 15, 2. OG., OMP 1

**Mathematisches Kolloquium:** Roberto Plato (Univ. Siegen): "The normalization-free regularization of linear ill-posed problems"

Ill-posed problems arise in many applications like medical imaging, geomathematics, non-destructive testing or parameter identification. It lies in the nature of such problems that they are unstable with respect to data perturbations which may arise, e.g., from measurement errors. This instability requires a special treatment called regularization. Usually linear ill-posed problems are normalized before such a regularization is employed, where normalization means applying the adjoint of the operator to the equation under consideration. Some classes of linear ill-posed problems, e.g., symmetric positive semi-definite problems or nonsymmetric accretive equations in Hilbert spaces, allow a regularization without normalization which in fact is desirable both for reasons of computational performance and conservation of mathematical structure. In this talk we review some regularization methods with avoid such normalization, e.g., Richardson iteration or the Lavrentiev method, and resolvent conditions serve as a basic tool here. For the latter method we also present new results on adjoint source conditions as well as converse and saturation results.

im Anschluss vinum cum pane

Otmar Scherzer, Christian Krattenthaler

Montag 10. Oktober 2016, ab 15:00 Uhr, BZ 9. OG., OMP 1,

**öffentliche Defensio:** Sabine Beil (Univ. Wien): "Triangular fully packed loop configurations: Wieland drift, configurations of small excess and a generalization"

(Details siehe Anhang)

Montag, 10. Oktober 2016, ab 17:15 Uhr, SR 11, 2. OG., OMP 1

**Vortrag:** Victor Przhivalkovskiy (RAS): "Calabi – Yau compactifications of Landau – Ginzburg models for smooth Fano threefolds"

org. by L. Katzarkov

Dienstag, 11. Oktober 2016 von 13.15 Uhr bis 14:45 Uhr, SR 10, 2. OG., OMP 1

**Complex Analysis SE:** Stefan Fürdös (Univ. Wien): "Introduction to CR geometry"

org. by B. Lamel, M. Reiter

<http://complex.univie.ac.at/events/detail-of-event/news/introduction-to-cr-geometry/>

Dienstag, 11. Oktober 2016, von 15:00 Uhr bis 17:00 Uhr, SR 9, 2. OG., OMP 1

**Geometry and Analysis on Groups, Research SE:** Adrien Boyer (Weizmann Institute): "Monotony for boundary representations of free group"

org. by G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/161011.html>

Dienstag, 11. Oktober 2016, von 15:15 Uhr bis 16:45 Uhr, TU Dissertantenraum, Freihaus, Turm A, 8. OG., Wiedner Hauptstraße 8-10, 1040 Wien

**AG Diskrete Mathematik Seminar:** Wilfried Imrich (MU Leoben): "Finite and infinite edge-transitive products of graphs"

org. by M. Drmota

<http://dmg.tuwien.ac.at/nfn/agdm.html>

Donnerstag, 13. Oktober 2016, von 15:15 Uhr bis 17:00 Uhr, BZ 9.142, 9. OG., OMP 1

**AG Ergodentheorie:** Klaus Schmidt (Uni. Wien): "Permutations of  $\mathbb{Z}^d$  with restricted movement"

Org. by H. Bruin, R. Zweimüller

[http://www.mat.univie.ac.at/~zweimueller/AG\\_ETHY.html](http://www.mat.univie.ac.at/~zweimueller/AG_ETHY.html)



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**Donnerstag, 13. Oktober 2016, von 15:15 Uhr bis 16:00 Uhr, SR 7, 2. OG., OMP 1**

**SE Optimization:** Michel Thera (Univ. de Limoges): "Ekeland's inverse function theorem revisited for multifunctions"

org. by R.I. Bot, A. Neumaier, H. Schichl

**Donnerstag, 13., Oktober 2016, von 16:00 Uhr bis 18:00 Uhr, Josephinum, SR 8 (Zi.02.101), Währinger Str. 25, 1090 Wien,**

**KGRC Research Seminar:** Daniel Soukup (KGRC): "Some graph theory from the Rockies"

org. by Kurt Gödel Research Center

[http://www.logic.univie.ac.at/2016/Talk\\_10-13\\_a.html](http://www.logic.univie.ac.at/2016/Talk_10-13_a.html)