Fakultät für Mathematik

Vorträge

**Donnerstag, 27. August 2015, ab 16:00 Uhr, Sky-Lounge (12 OG),
Oskar-Morgenstern-Platz 1, 1090 Wien**
Außerordentliches Mathematisches Kolloquium
**Prof. Dr. Yurii Nesterov (CORE/INMA, Univ. Catholique de Louvain (UCL), Belgien):
"Complexity bounds for primal-dual methods minimizing the model of objective function"**

Abstract:
We provide Frank-Wolfe (Conditional Gradients) method with a convergence analysis allowing to approach a primal-dual solution of convex optimization problem with composite objective function. Additional properties of complementary part of the objective (strong convexity) significantly accelerate the scheme. We also justify a new variant of this method, which can be seen as a trust-region scheme applying the linear model of objective function. Our analysis works also for a quadratic model, allowing to justify the global rate of convergence for a new second-order method. To the best of our knowledge, this is the first trust-region scheme supported by the worst-case complexity bound.

15:30 Uhr – 16:00 Uhr K & K (Sky Lounge)

o. Univ. Prof. Dr. hc Arnold Neumaier
PhD Masoud Ahookhosh
Dekan Univ.-Prof. Dr. Harald Rindler

**Montag, 24. August 2015, ab 09:00 Uhr – Freitag 28. August 2015 , ESI-HS,
Boltzmanng. 9/2, 1090 Wien**
ESI-Workshopeminar I on "Semi-classical Analysis: Spectral Theory and Resonances"
im Rahmen: "Modern theory of wave equations"
Prof. Alexander Strohmaier (Loughborough Univ.): "The Dirac operator on curved spaces: Index Theorems, Spectral Theory & Gravitation"
(Details siehe Attachment)
organized by C. Guillarmou, W. Müller, A. Strohmaier, A. Vasy

Dienstag, 25. August 2015, Freitag, ab 10:30 Uhr, HS 10, 2. OG, Oskar-Morgenstern-Platz 1, 1090 Wien
Seminarvortrag
Dr. Jonas Deré (KU Leuven, Belgien): "Which manifolds admit expanding maps"
organized by D. Burde

**Dienstag, 25. August 2015, ab 15:00 Uhr, Besprechungszimmer 9, 9. Stock,
Oskar-Morgenstern-Platz 1, 1090 Wien**
Öffentliches Defensio
Dominik Gruber BSc, MSc: "Infinitely presented graphical small cancellation groups"
(siehe Attachment)