



VORTRÄGE

Montag, 29. Febr. 2016 – Freitag, 4. März 2016 um 11:15 Uhr, ESI, Boltzman Lecture Hall,
Boltzmannng. 9/2, 1090 Wien

Simons Lectures Series: Claudia Scheimbauer (MPI Bonn): “Operads, factorization algebras, and (topological) quantum field theory with a flavor of higher categories”

org. by N. Carqueville (Details siehe Anhang)

Dienstag, 1. März 2016 ab 10:30 Uhr, ESI, Boltzman Lecture Hall, Boltzmannng. 9/2, 1090 Wien

ESI – Seminar: John Wilson (U Oxford): “Informal talk on profinite groups”

org. by T. Schick (Details siehe Anhang)

Mittwoch, 2. März 2016, 10:00 Uhr bis 11:00 Uhr, HS 11, 2 OG., OMP 1

Habilitationsvortrag : Ernő Robert Csetnek (Univ. Wien): “Approaching nonsmooth and nonconvex optimization problems through continuous and discrete proximal-type algorithms”

Abstract:

We consider the nonconvex optimization problem consisting in minimizing the sum of a smooth function with a nonsmooth one from the perspective of a continuous dynamical system of forward-backward type. The latter is formulated by means of the gradient of the smooth function and of the proximal point operator of the nonsmooth one. The aim is to recover critical points of the objective function, that is elements satisfying the first order optimality conditions expressed via the limiting subdifferential. The trajectory generated by the dynamical system is proved to asymptotically converge to a critical point of the objective, provided a regularization of the latter satisfies the Kurdyka-Lojasiewicz property. Convergence rates for the trajectory in terms of the Lojasiewicz exponent of the regularized objective function are also provided. In the second part of the talk we consider a discretized version of the investigated dynamical system and present the convergence properties of an iteratively generated sequence for solving optimization problems where both functions from the objective are nonconvex. We illustrate the theoretical results by considering two numerical experiments.

Donnerstag, 3. März 2016, von 16.00 Uhr bis 18:00 Uhr, Josephinum, SR 8 (Zi. 02.101),
Währinger Str. 25, 1090 Wien,

KGRC Research Seminar : Yann Pequignot (KGRC): “From well to better, the space of ideals”

org. by Kurt Gödel Research Center

http://www.logic.univie.ac.at/2016/Talk_03-03_a.html

Donnerstag, 3. März 2016 ab 14:00 Uhr, ESI, Boltzman Lecture Hall, Boltzmannng. 9/2, 1090 Wien

ESI – Seminar: Thomas Schick (U Göttingen): “Strange values of L2-Betti numbers for positive characteristic”

org. by G. Arzhantseva (Details siehe Anhang)