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Fakultät für Mathematik

Vorträge

Mittwoch, 13. Jän. 2016, ab 16:15 Uhr, Sky-Lounge (12 OG), Oskar-Morgenstern-Platz 1, 1090 Wien

Mathematisches Kolloquium

Kim Knudsen (Denmarks Tekniske Univ.): “High Definition Impedance Tomography via Acoustic Modulation”

Abstract:

The inverse problem in Electrical Impedance Tomography (EIT), mathematically known as the Calderon problem, is known to be extremely ill-posed, and hence any reconstruction from noisy data suffers from low resolution and low contrast. Recently new ideas have emerged that appear to resolve the issues by utilizing interior information that in principle can be computed using so-called hybrid data from other imaging devices. One such combined tomographic modality is known as Acousto-Electric Tomography and makes use of both ultrasonic waves and EIT simultaneously. The combination the physical waves gives rise to new and challenging mathematical questions of both theoretical and computational nature. In this talk the basic difficulties in EIT will be discussed and the mathematical problem of Acousto-Electric Tomography (and similar kinds) will be introduced. The fundamental questions will be posed and (partially) answered. In particular we will through numerical examples discus some recent results regarding the stability and instability of the reconstruction problem.

15:45 Uhr – 16:15 Uhr K & K (Sky Lounge) anschließend nach dem Vortrag
Vinum cum pane

Otmar Scherzer, Harald Rindler

Dienstag, 12. Jän. 2016, von 15:00 bis 16:30 Uhr, Besprzi. 3. Stk., 3. OG., Oskar-Morgenstern-Platz 1, 1090 Wien

AG Algebraische Geometrie

Martina Ehler (Univ. Wien): „Polynomials on unions of Grassmannians”
org. by H. Hauser

Dienstag, 12. Jän. 2016, von 15:00 - 17:00 Uhr, SR 8, 2. OG., Oskar-Morgenstern-Platz 1, 1090 Wien,

Geometry and Analysis on Groups

Panos Papazoglou (Univ. of Oxford): “Cutpoints of CAT(0) groups.”
org. by G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/160112.html>

Dienstag, 12. Jän. 2016, von 15:15 Uhr bis 16:45, TU-Wien, Dissertantenraum, Freihaus, Turm A, 8. Stk. Wiedner Hauptstr. 8-10, 1040 Wien

AG Diskrete Mathematik

Jang Soo Kim (Sungkyunkwan Univ. Suwon, South Korea): “On q-integrals over order polytopes”

org. by M. Drmota

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



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Donnerstag, 14. Jän. 2016, von 11:00 Uhr bis 12:00 Uhr, SR A, Währingerstr. 17, 2. OG., 1090 Wien

GAP Seminar

Anna Sakovich (Univ. Wien): “On the notion of center of mass in general relativity
org. by B. Bauer, V. Branding, D. Fajman, J. Joudioux, B. Schörkhuber
(siehe Attachment)

Donnerstag, 14. Jän. 2016, von 16:00 Uhr bis 18:00 Uhr, Josephinum,
SR 8 (Zi. 02.101), Währinger Str. 25, 1090 Wien,

KGRC Research Seminar

Leszek Kolodziejczyk (Univ. of Warsaw, Poland): “How unprovable is Rabin’s
decidability theorem”
org. by KGRC

http://www.logic.univie.ac.at/2016/Talk_01-14_a.html

Donnerstag, 14. Jän. 2016, von 16:30 Uhr bis 18:30 Uhr, SR 9, 2. OG., Oskar-
Morgenstern-Platz 1, 1090 Wien

Vienna Seminar in Mathematical Finance and Probability

Martin Herdegen (ETH-Zürich, Schweiz): “Equilibrium models with small transaction
costs”

<http://www.fam.tuwien.ac.at/events/vs-mfp/>