BRÅKET

Information om seminarier och högre undervisning i matematiska ämnen i Stockholmsområdet

NR 31 **FREDAGEN DEN 10 OKTOBER 2003**

BRÅKET

Veckobladet från Institutionen för matematik vid Kungl Tekniska Högskolan och Matematiska institutionen vid Stockholms universitet

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Sista manustid för nästa nummer:
Torsdagen den 16 oktober kl. 13.00.

SEMINARIER

Fr 10–10 kl. 10.00–12.00. Högre seminariet i språkfilosofi och logik. Den andra av **Michael Dummetts** Deweyföreläsningar från år 2002: *Truth and the Past. Lecture 2: Statements about the past.* Texterna är publicerade i *Journal of Philosophy,* vol. 100, pp. 26–37. **Sama Agahi** inleder seminariet. Rum D700, Filosofiska institutionen, SU, Universitetsvägen 10D, Frescati.

Fr 10–10 kl. 10.15. Presentation av examensarbete i teoretisk fysik. Tiglet Besara: *The Nature of Neutrinos: Dirac or Majorana.* Seminarierummet, Roslagstullsbacken 11, Stockholms centrum för fysik, astronomi, bioteknik (SCFAB, AlbaNova).

Fr 10–10 kl. 12.00–13.00. GRU-seminarium i matematik: *Att handleda examensarbete.* Sammanträdesrum 3424 (innanför pausrummet), Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 4. Se Bråket nr 30 sidan 8.

Fr 10–10 kl. 13.15. Seminar in Topological String Theory. Markus Rosellen, SU: *Introduction to vertex algebras II.* Rum 306, hus 6, Matematiska institutionen, SU, Kräftriket. Se Bråket nr 29 sidan 5.

Fortsättning på nästa sida.

Disputation i matematisk statistik

Anna Carlsund disputerar vid KTH på avhandlingen *Cover times, sign-dependent random walks, and maxima* fredagen den 31 oktober kl. 14.00. Se sidan 7.

Disputation i matematik

Axel Hultman disputerar vid KTH på avhandlingen *Combinatorial complexes, Bruhat intervals and reflection distances* tisdagen den 21 oktober kl. 15.15. Se sidan 6.

Kurs

Gustav Amberg, John Ågren, Gunilla Kreiss, Anders Szepessy: Course on free boundary problems. Se sidan 5.

Money, jobs: Se sidorna 8–9.

Seminarier (fortsättning)

Må 10–13 kl. 13.15–15.00. Seminar in Analysis and its Applications. Ahmed Sebbar, Université Bordeaux I: *Capacities, critical points of Green's function and Darboux-Halphen systems.* Seminarierum 3733, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7. Se sidan 4.

Må 10–13 kl. 15.15–17.00. Seminarium i matematisk statistik. Torkel Erhardsson: *Steins metod för Poisson- och sammansatt Poissonapproximation.* (Det första av två seminarier.) Seminarierum 3733, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7. Se Bråket nr 30 sidan 5.

Må 10–13 kl. 18.30. Populärvetenskaplig föreläsning i fysik. Professor René Liseau, Astronomisk rymdforskning, SU: *På jakt efter liv på fjärran planeter: Om planeter utanför vårt solsystem och deras egenskaper.* Oskar Kleins auditorium, Roslagstullsbacken 21, Stockholms centrum för fysik, astronomi, bioteknik (SCFAB, AlbaNova). Se Bråket nr 30 sidan 7.

Ti 10–14 kl. 14.00–15.00. Mittag-Leffler Seminar. Arnfinn Laudal, Oslo: *Noncommutative algebraic geometry II.* Institut Mittag-Leffler, Auravägen 17, Djursholm.

Ti 10–14 kl. 15.30–16.30. Mittag-Leffler Seminar. Søren Jøndrup, Copenhagen: *Ring theory and noncommutative geometry.* Institut Mittag-Leffler, Auravägen 17, Djursholm.

On 10–15 kl. 10.30–12.15. Logikseminariet Stockholm-Uppsala. Bas Spitters, Nijmegen: *Constructive functional analysis.* Sal 2214, Matematiska institutionen, Polacksbacken, Uppsala universitet. Se sidan 4.

On 10–15 kl. 13.00. Seminarium i statistik. Gösta Hägglund, SU: *Statistisk tankesmedja: Konfirmativ vs explorativ analys.* Sal B705, Statistiska institutionen, SU, Universitetsvägen 10B, plan 7, Frescati.

On 10–15 kl. 13.15–14.15. Seminarium i analys och dynamiska system. Andreas Strömbergsson, Uppsala: *Rate of convergence for horocycle flows.* Seminarierum 3721, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7. Se sidan 5.

On 10–15 kl. 13.15–15.00. Algebraseminarium. Gunnar Fløystad, Bergen: *Hierarkier av simplisielle komplekser via BGG-korrespondansen.* Rum 306, hus 6, Matematiska institutionen, SU, Kräftriket. Se sidan 3.

On 10–15 kl. 14.00–15.00. Logikseminariet Stockholm-Uppsala. Thierry Coquand, Chalmers tekniska högskola, Göteborg: *A completeness proof for coherent logic.* Sal 3513, Matematiska institutionen, Polacksbacken, Uppsala universitet. Se sidan 4.

To 10–16 kl. 14.00–15.00. Mittag-Leffler Seminar. Marc Rieffel, Berkeley: *Introduction to noncommutative differential geometry. Part 3: Metric differential geometry.* Institut Mittag-Leffler, Auravägen 17, Djursholm.

Må 10–20 kl. 15.15–17.00. Seminarium i matematisk statistik. Torkel Erhardsson: *Steins metod för Poisson- och sammansatt Poissonapproximation.* (Det andra av två seminarier.) Seminarierum 3733, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7. Se Bråket nr 30 sidan 5.

Ti 10–21 kl. 14.00–15.00. Mittag-Leffler Seminar. Thordur Jónsson, Reykjavik: *Scalar field theory on noncommutative spaces I.* Institut Mittag-Leffler, Auravägen 17, Djursholm.

Fortsättning på nästa sida.

Seminarier (fortsättning)

Ti 10–21 kl. 15.30–16.30. Mittag-Leffler Seminar. Bergfinnur Durhuus, Copenhagen: *Scalar field theory on noncommutative spaces II.* Institut Mittag-Leffler, Auravägen 17, Djursholm.

On 10–22 kl. 13.00. Seminarium i statistik. Gebrenegus Ghilagaber, SU: *Sequential probit modelling of educational progress.* Sal B705, Statistiska institutionen, SU, Universitetsvägen 10B, plan 7, Frescati.

On 10–22 kl. 13.15–14.15. Seminarium i analys och dynamiska system. Kyril Tintarev, Uppsala: *A singular elliptic problem on a half-space.* Seminarierum 3721, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7. Se sidan 8.

To 10–23 kl. 14.00–15.00. Mittag-Leffler Seminar. Hans Plesner Jakobsen, Copenhagen: *Kac-Moody, Virasoro, and Heisenberg algebras arising in matrix chain models.* Institut Mittag-Leffler, Auravägen 17, Djursholm.

Fr 10–24 kl. 10.15–12.00. Seminarium i matematisk statistik. *(Observera dagen, tiden och lokalen!)* **Professor Hanspeter Schmidli,** Forsikringsmatematisk Laboratorium, Københavns Universitet: *Asymptotics of ruin probabilities for controlled risk processes.* Seminarierum 3721, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7. Se sidan 5.

Fr 10–24 kl. 14.00–16.00. Gästföreläsning. I samband med utdelningen av årets Rolf Schockpris i logik och filosofi håller **Anita Burdman Feferman** och **Solomon Feferman** gemensamt en gästföreläsning med titeln: *Truth and consequences.* Hörsal 9, SU, Södra huset, Universitetsvägen 10, Frescati.

ALGEBRASEMINARIUM

Gunnar Fløystad: Hierarkier av simplisielle komplekser via BGG-korrespondansen

Abstract: Via the BGG-correspondence a simplicial complex X on $[n]$ is transformed into a complex of coherent sheaves $L(X)$ on the projective space P^{n-1}. In general we compute the support of each of its cohomology sheaves.

When the Alexander dual X^* is Cohen-Macaulay, there is only one such non-zero cohomology sheaf. We investigate when this sheaf can be an a'th syzygy sheaf in a locally free resolution and show that this corresponds exactly to the case of X^* being $a+1$-Cohen-Macaulay as defined by K. Baclawski.

By putting further conditions on the sheaves we get nice subclasses of $a+1$-Cohen-Macaulay simplicial complexes whose f-vector depends only on a and the invariants n, d, c of X. When $a = 0$ these are the bi-Cohen-Macaulay simplicial complexes, when $a = 1$ and $d = 2c$ cyclic polytopes are examples, and when $a = c$ we get Alexander duals of the Steiner systems $S(c, d, n)$.

We also show that X^* is Gorenstein* iff the associated coherent sheaf of X is an ideal sheaf.

Tid och plats: Onsdagen den 15 oktober kl. 13.15–15.00 i rum 306, hus 6, Matematiska institutionen, SU, Kräftriket.

SEMINAR IN ANALYSIS AND ITS APPLICATIONS

Ahmed Sebbar: Capacities, critical points of Green's function and Darboux-Halphen systems

Abstract: Our aim in this talk is to explain a wonderful correlation between the capacity of a finite union of intervals and the spectral theory of periodic and limit-periodic Jacobi matrices. We also give the formula for this capacity in terms of the Riemann theta function associated to the given intervals. We show how this problem is related to the the motion of the critical points of the Green's function and to the zeros of the Bergman kernel of some multiply-connected domains. In the case of two intervals, we give an explicit formula for the zero of the Bergman kernel by combining solutions of some nonlinear differential equations (Chazy's equation) and some nonlinear differential system (Darboux-Halphen's system).

Tid och plats: Måndagen den 13 oktober kl. 13.15 – 15.00 i seminarierum 3733, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7.

LOGIKSEMINARIET STOCKHOLM-UPPSALA

Bas Spitters: Constructive functional analysis

Abstract: (Partially joint work with Thierry Coquand.) A common misconception about constructive mathematics (in the sense of Brouwer, Bishop or Martin-Löf) is that it would not be powerful enough for the applications of mathematics. In fact, this was the Weyl's contention. We will indicate how functional analysis and integration theory, which constitute a large part of mathematical physics, can be developed constructively. In this process we will emphasize an observational account of mathematics, which is natural in functional analysis. This observational viewpoint helps to limit the use of the axiom of (countable) choice.

Finally, we will give an application of this theory to one of Weyl's important contributions to mathematical physics, the Peter-Weyl theorem. This proof uses proof-theoretical methods instead of the usual set-theoretical ones.

This talk is accessible to both logicians and analysts.

Tid och plats: Onsdagen den 15 oktober kl. 10.30 – 12.15 i sal 2214, Matematiska institutionen, Polacksbacken, Uppsala universitet.

LOGIKSEMINARIET STOCKHOLM-UPPSALA

Thierry Coquand: A completeness proof for coherent logic

Abstract: The notion of dynamical proof comes from the work of Coste-Lombardi-Roy in constructive algebra, and it can be seen as a special case of the tableau method as presented for instance in Smullyan's book on first-order logic. Using this notion, we refine the usual construction of the classifying site of a first-order coherent theory. The conditions become finite presentation of models while the morphisms are inclusion and renaming.

We use this construction to give a direct proof of consistency of the theory of algebraically closed fields, which does not rely on quantifier elimination. We show also how these notions illuminate Skolem's 1920 treatment of plane projective geometry.

Tid och plats: Onsdagen den 15 oktober kl. 14.00 – 15.00 i sal 3513, Matematiska institutionen, Polacksbacken, Uppsala universitet.

SEMINARIUM I ANALYS OCH DYNAMISKA SYSTEM

Andreas Strömbergsson:
Rate of convergence for horocycle flows

Abstract: I will talk about the horocycle flow on the unit tangent bundle of a non-compact hyperbolic surface of finite area. It was proved by Dani and Smillie (1984) that every non-closed orbit of this flow goes asymptotically equidistributed with respect to the Liouville volume measure. This result was later vastly generalized by Ratner to unipotent flows on arbitrary Lie groups, 1991. I will discuss how to obtain an effective rate of convergence result in the case of the horocycle flow. The bounds I will give depend on the small eigenvalues of the Laplacean and on the rate of excursion into cusps for the geodesic corresponding to the given initial point. I will show that in a certain sense the bounds obtained are the best possible, for any given initial point.

Tid och plats: Onsdagen den 15 oktober kl. 13.15 – 14.15 i seminarierum 3721, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7.

SEMINARIUM I MATEMATISK STATISTIK

Hanspeter Schmidli:
Asymptotics of ruin probabilities for controlled risk processes

Abstract: We consider a classical risk model with the possibility of reinsurance and investment into a risky asset. The insurer follows the optimal strategy, as found by Hipp and Plum (2000) and Schmidli (2001, 2002). We find the Cramér-Lundberg approximation in the small claim case as well as in the case where no exponential moments exist. In particular we find an exponential decay of the ruin probability by following the optimal strategy. If a fixed part would be invested, the ruin probability would have a power tail. We prove that the optimal strategy converges to the strategy maximizing the adjustment coefficient as the capital increases to infinity.

Tid och plats: Fredagen den 24 oktober kl. 10.15 – 12.00 i seminarierum 3721, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7.

GRADUATE COURSE IN MECHANICS

Gustav Amberg, John Ågren, Gunilla Kreiss, Anders Szepessy:
Course on free boundary problems, 5 p

This course introduces some classical free boundary problems from fluid mechanics and materials science, such as flow in and around drops, bubbles and surface waves, solidification and phase change, and some mathematical theory for such problems. The available numerical methods are surveyed.

The course is intended for graduate students in fluid mechanics, materials science, computational science, or applied mathematics, and possibly interested last year undergraduate students.

Time and place: The course will start on Wednesday, November 5, at 9.15 – 11.00 in room L43, KTH, Drottning Kristinas väg 30. The course consists of twelve lectures, and it continues until mid February 2004.

More details are found at http://www2.mech.kth.se/~gustava/freeboundaries. If you want to participate in the course, please send an e-mail to Gustav Amberg (gustava@mech.kth.se).

DISPUTATION I MATEMATIK

Axel Hultman

disputerar på avhandlingen

Combinatorial complexes, Bruhat intervals and reflection distances

tisdagen den 21 oktober kl. 15.15 i sal E2, KTH, Lindstedtsvägen 3, b.v. Till fakultetsopponent har utsetts *professor Richard P. Stanley,* Department of Mathematics, MIT, Cambridge, USA.

Abstract of the thesis

The various results presented in this thesis are naturally subdivided into three different topics, namely **combinatorial complexes**, **Bruhat intervals** and **expected reflection distances**. Each topic is made up of one or several of the altogether six papers that constitute the thesis. The following are some of our results, listed by topic:

Combinatorial complexes:

- Using a shellability argument, we compute the cohomology groups of the complements of polygraph arrangements. These are the subspace arrangements that were exploited by Mark Haiman in his proof of the $n!$ theorem. We also extend these results to Dowling generalizations of polygraph arrangements.
- We consider certain B- and D-analogues of the quotient complex $\Delta(\Pi_n)/S_n$, i.e. the order complex of the partition lattice modulo the symmetric group, and some related complexes. Applying discrete Morse theory and an improved version of known lexicographic shellability techniques, we determine their homotopy types.
- Given a directed graph G, we study the complex of acyclic subgraphs of G as well as the complex of not strongly connected subgraphs of G. Known results in the case of G being the complete graph are generalized.

Bruhat intervals:

We list the (isomorphism classes of) posets that appear as intervals of length 4 in the Bruhat order on some Weyl group. In the special case of symmetric groups, we list all occurring intervals of lengths 4 and 5.

Expected reflection distances:

Consider a random walk in the Cayley graph of the complex reflection group $G(r, 1, n)$ with respect to the generating set of reflections. We determine the expected distance from the starting point after t steps. The symmetric group case ($r = 1$) has bearing on the biologist's problem of computing evolutionary distances between different genomes. More precisely, it is a good approximation of the expected reversal distance between a genome and the genome with t random reversals applied to it.

DISPUTATION I MATEMATISK STATISTIK

Anna Carlsund

disputerar på avhandlingen

Cover times, sign-dependent random walks, and maxima

fredagen den 31 oktober kl. 14.00 i Kollegiesalen, Administrationsbyggaden, KTH, Valhallavägen 79. Till fakultetsopponent har utsetts *docent Sven Erick Alm,* Matematiska institutionen, Uppsala universitet.

Abstract of the thesis

This thesis consists of four independent papers. The first three papers are closely connected while the fourth paper treats a slightly different problem.

In the first paper, results for cover times of simple random walks are generalized to hold for random walks with independent and identical exponentially distributed holding times. Transform techniques are used to derive the distributions. The transform for the density function of the cover time is appropriately scaled and a limit distribution is obtained. The distributions and the convergence to a limit distribution are graphically illustrated.

In the second paper the model is generalized to a sign-dependent random walk. A sign-dependent random walk is a simple random walk where the one-step transition probabilities can be different on the positive and negative half-line. The transform for the probability (density) function of the first passage time is derived, both for a sign-dependent random walk with constant holding times (probability generating function) and with independent and identical exponentially distributed holding times (Laplace transform). Some extensions of the first passage time are studied. The transform of the density function for the first passage time is scaled and a limit distribution is obtained. The Laplace transforms are numerically inverted and the distributions are illustrated by graphs.

The first passage time is used in the third paper to obtain transition probabilities for a sign-dependent random walk (also by transforms). After suitable scaling, weak convergence for a sign-dependent random walk to a certain diffusion is shown. In some special cases the transform for the limit distribution is possible to invert analytically. In the other cases numerical inversion is used.

The fourth paper concerns the number of maxima points in a three-dimensional cube where points are randomly placed. The main result is an exact explicit formula for the variance of the number of maxima. Previous formulas for the variance only contain the leading term in an asymptotic formula which give misleading estimates.

SEMINARIUM I ANALYS OCH DYNAMISKA SYSTEM

Kyril Tintarev:
A singular elliptic problem on a half-space

Abstract: We consider isoperimetric elliptic problems on unbounded domains. Many of such problems lack a minimizer, for example the Hardy and the limit-exponent Sobolev inequality on the half space. We show that minimizers exist for an interpolation between these inequalities. A similar result of E. Lieb for the case of $\mathbf{R}^n \setminus \{0\}$ uses a reduction to radially symmetric functions. In case of half-space, we turn to the enhanced version of the Banach-Alaoglou theorem in presence of invariant transformations, the weak convergence decomposition (WCD) lemma, employing natural automorphisms of the half-space.

Tid och plats: Onsdagen den 22 oktober kl. 13.15 – 14.15 i seminarierum 3721, Institutionen för matematik, KTH, Lindstedtsvägen 25, plan 7.

MONEY, JOBS

Columnist: Hans Rullgård, Department of Mathematics, SU. E-mail: hansr@math.su.se.

Info = information. This will be given and repeated until obsolete. Rely on other sources as well.
BBKTH = Bulletin Board at the Department of Mathematics, KTH.
BBSU = Bulletin Board at the Department of Mathematics, SU.
The following information, with links, is also available at http://www.math.su.se/~hansr/mj.html.
Unless stated otherwise, a given date is the last date (e.g. for applications), and the year is 2003. A number without an explanation is a telephone number.

Standard information channels

1. A channel to information from Vetenskapsrådet: http://www.vr.se/naturteknik/index.asp.
2. A channel to information from the European Mathematical Society: http://www.emis.de.
3. A channel to information from the American Mathematical Society: http://www.ams.org.
4. KTH site for information on funds: http://www.kth.se/aktuellt/stipendier.
5. Stockholm University site for information on funds: http://www.su.se/forskning/stipendier/databas.php3.
6. Umeå site for information on funds: http://www.umu.se/umu/aktuellt/stipendier_fond_anslag.html.
7. Job announcement site: http://www.maths.lth.se/nordic/Euro-Math-Job.html. This is run by the European Mathematical Society.
8. Stiftelsen för internationalisering av högre utbildning och forskning (STINT) site for information on funds: http://www.stint.se.
9. Nordisk Forskerutdanningsakademi (NorFA) site for information on funds: http://www.norfa.no.
10. Svenska institutet (SI) site for information on funds: http://www.si.se.

New information

Money, to apply for

11. Generaldirektör Waldemar Borgquists Stipendiefond utdelar stipendium till person som är utexaminerad från Elektroteknik, KTH, och som avser att bedriva fortsatta studier med sikte på licentiat- eller doktorsexamen, specialstudier utomlands eller fortsätta ett betydelsefullt examensarbete utöver tre månader, 3 november. Info: Ulrika Hallstrand, e-post ulrika@def.kth.se, Christina Nordin, e-post cnordin@def.kth.se. Web-info: se punkt 4 ovan.

(Continued on the next page.)

Jobs, to apply for

12. Matematiska institutionen vid Linköpings universitet ledigförklarar minst en anställning som doktorand i matematik, 31 oktober. Info: Bengt Ove Turesson, 013-28 14 36, e-post betur@mai.liu.se, Lars-Erik Andersson, 013-28 14 17, e-post leand@mai.liu.se, Inga-Britt Hofstam, 013-28 14 01, e-post inhof@mai.liu.se. Web-info: http://www.liu.se/jobbdb/show.html?1030.

Old information

Money, to apply for

13. Ivar Bendixsons stipendier för docenter vid naturvetenskapliga fakulteten vid SU är lediga för ansökan, 22 oktober. Info: BBSU.

14. Kungl. Vetenskapsakademien har avtal om forskarutbyte omfattande två veckor till sex månaders vistelse i Japan för studier/forskning inom naturvetenskap, matematik, medicin och ekonomi. Vetenskapsakademien betalar resekostnaderna från hemlandet till mottagarlandet och tillbaka, och mottagande akademi betalar kostnaderna för inkvartering och resor inom besökslandet samt en daglig summa i landets valuta för mat och personliga utgifter. Den sökande skall ha doktorsexamen. Resan skall påbörjas under perioden 1 april – 31 december 2004. Ansökan skall göras på särskild blankett senast 1 november. Info: Karin Holmvall, 08-673 96 19, e-post karin.holmvall@kva.se. Web-info: http://www.kva.se/KVA_Root/swe/awards/scholarships/detail_scholarships.asp?grantsId=18.

15. Kungl. Vetenskapsakademien fördelar anslag för projektsamarbete mellan forskare i Sverige och länder inom f.d. Sovjetunionen inom ämnesområdena naturvetenskap, matematik, medicin, m.m. Ansökan skall ske på särskild blankett senast 10 oktober. Info: Sophia Westlund, 08-673 95 67, e-post sophia@kva.se. Web-info: http://www.kva.se/KVA_Root/swe/awards/scholarships/detail_scholarships.asp?grantsId=28.

16. Stiftelsen för Strategisk Forskning utlyser 20 anslag på vardera 1,5 miljoner kr för att möjliggöra förnyelse för forskare med en stark forskningskarriär bakom sig. Anslaget är tänkt att användas under ett sabbatsår för att initiera en ny forskningsinriktning. Sista ansökningsdag 30 oktober. Info: 08-505 816 00, e-post found@stratresearch.se. Web-info: http://www.stratresearch.se.

17. Sweden-Japan Foundation (SJF) utlyser stipendier för studier, forskning samt examensarbete och praktik på högskolenivå i Japan. Stipendierna är främst avsedda för studier inom teknik, naturvetenskap, ekonomi, juridik, medicin och handel. Beslut fattas vid tre tillfällen per år. Sista ansökningsdagar är 1 mars, 1 september samt 1 december. Ansökan skall ske på särskild blankett. Info: 08-611 68 73, e-post info@swejap.a.se. Web-info: http://www.swejap.a.se.

18. Från Knut och Alice Wallenbergs Stiftelse ställs anslag till rektors för KTH förfogande för att "i första hand användas till bidrag för sådana resor som bäst befordrar ett personligt vetenskapligt utbyte till gagn för svensk forskning. Bidrag skall främst beviljas till yngre forskare. Medel kan även — efter rektors bedömning — undantagsvis disponeras för utländska gästforskare." Bidrag till resor inom Norden beviljas i regel inte. Bidrag kan sökas när som helst under året. Info: Anette Nyström, 08-790 70 59. Web-info: se punkt 4 ovan.

Jobs, to apply for

19. Matematiska institutionen vid Linköpings universitet ledigförklarar en anställning som universitetslektor i matematisk statistik, 3 november. Info: Timo Koski, 013-28 14 54, e-post tikos@mai.liu.se, Eva Enqvist, 013-28 14 33, e-post evenq@mai.liu.se. Web-info: http://www.liu.se/jobbdb/show.html?1043.

20. Uppsala universitet ledigförklarar en anställning som forskare vid institutionen för informationsteknologi, 13 oktober. Info: Sverker Holmgren, 018-471 29 92. Web-info: http://www.offentliga-jobb.mediacom.se/sites/cfml/uu/uuVis.cfm?plugin=1&englishJobs=NO&nJobNo=57326&nLangNo=4.

21. Institutionen för kemi och biomedicinsk vetenskap vid Högskolan i Kalmar söker en universitetslektor/-adjunkt i matematik med inriktning mot matematikens didaktik/utbildningsvetenskap (tidsbegränsad anställning), 31 oktober. Info: Håkan Hallmer, 0480-44 62 01, e-post hakan.hallmer@hik.se, Torsten Lindström, 0480-44 64 10, e-post torsten.lindstrom@hik.se, Björn Walther, 0480-44 64 04, e-post bjorn.walther@hik.se. Se Bråket nr 30 sidan 9.