

## Assessment of candidates for the professorship in algebra

### Introduction

The position was posted with deadline 1/8 2006. The description in the posting reads as follows:

*"The position is permanent with research within the field of algebra. The research tasks include the applicants own scientific work, research management and encouragement of the scientific development of the subject, tutorials and education of research fellows, including tutorials/supervision of assistant professors and assessment work. In addition to this, the professor must teach, prepare and participate in exams and attend to other tasks according to the further decision of the institute.*

*By appointment to the professorship decisive importance will be attached to the applicants degree of documented original scientific production at an international level including the contribution to further development of the subject area, just as importance is attached to the assessment of the applicants conduct of research management and any other management functions and teaching qualifications."*

The Faculty of Science received 30 applications in total before the deadline. No withdrawals were received.

The assessment committee consists of the following members:

Professor Dan Laksov, The Royal Institute of Technology, Stockholm, Sweden  
Professor Wilberd van der Kallen, Utrecht University, The Netherlands  
Professor Helmut Lenzing, University of Paderborn, Germany  
Professor Marie-France Vigneras, University of Paris 7, France  
Professor Henrik Schlichtkrull, University of Copenhagen, (chairman).

In the following, we give an assessment of each of the applicants. The assessments are ordered alphabetically by name of applicant. According to regulations, we decide whether each candidate is *qualified* or *unqualified* for the position. The evaluation of qualifications takes into regard the posting of the position in the field of algebra. We have judged the applicants on their scientific qualifications *within this subject*. Qualifications which in our opinion do not belong to the field of algebra have thus been considered of secondary importance. In practice this means that a candidate, who may be fully qualified for a mathematical professorship, very well can be found unqualified in the present evaluation.

None of the applicants have been summoned to give trial lectures before the committee, and the assessment of teaching qualifications is based on, sometimes scarce, information from the applications. We recommend that interviews are carried out before the final decision.

The present evaluation has been agreed to unanimously by all members of the committee.

February 12, 2007

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Marie-France Vigneras

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Dan Laksov

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Wilberd van der Kallen

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Helmut Lenzing

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Henrik Schlichtkrull

**Lars Kadison**

**VITA:**

Born 1958 in USA. Speaks Danish fluently.

PhD in mathematics, University of California at Berkeley 1989  
Advisors John Wagoner and Marc Rieffel

1989-1991 Post-Doc, Luminy and Århus

1991-1995 Assistant professor, Roskilde Universitetscenter

1996-1997 Associate professor, Norwegian University of Technology, Trondheim

2002-2004 Visiting professor, University of New Hampshire, Durham

2006 Visiting professor, University of Pennsylvania at Philadelphia.

**THESIS TITLE:**

Cyclic homology of triangular matrix algebras and nested algebras of operators.

**RESEARCH:**

His main results include topics like Jones polynomials and Frobenius extensions, and he has become a leading expert on Hopf algebras and Hopf algebroids. Since 1997 he has been research associate at Chalmers/University of Göteborg. He has published 25 articles and has 4 preprints. He has authored a book on Frobenius extensions.

**TEACHING:**

In Denmark he supervised 16 projects. He has several years of teaching experience from Roskilde, Trondheim and Durham. He has shown interest in teaching and is the coauthor of a textbook. His student evaluations from the University of New Hampshire are very good.

**SUMMARY:**

Kadison is qualified for the position.