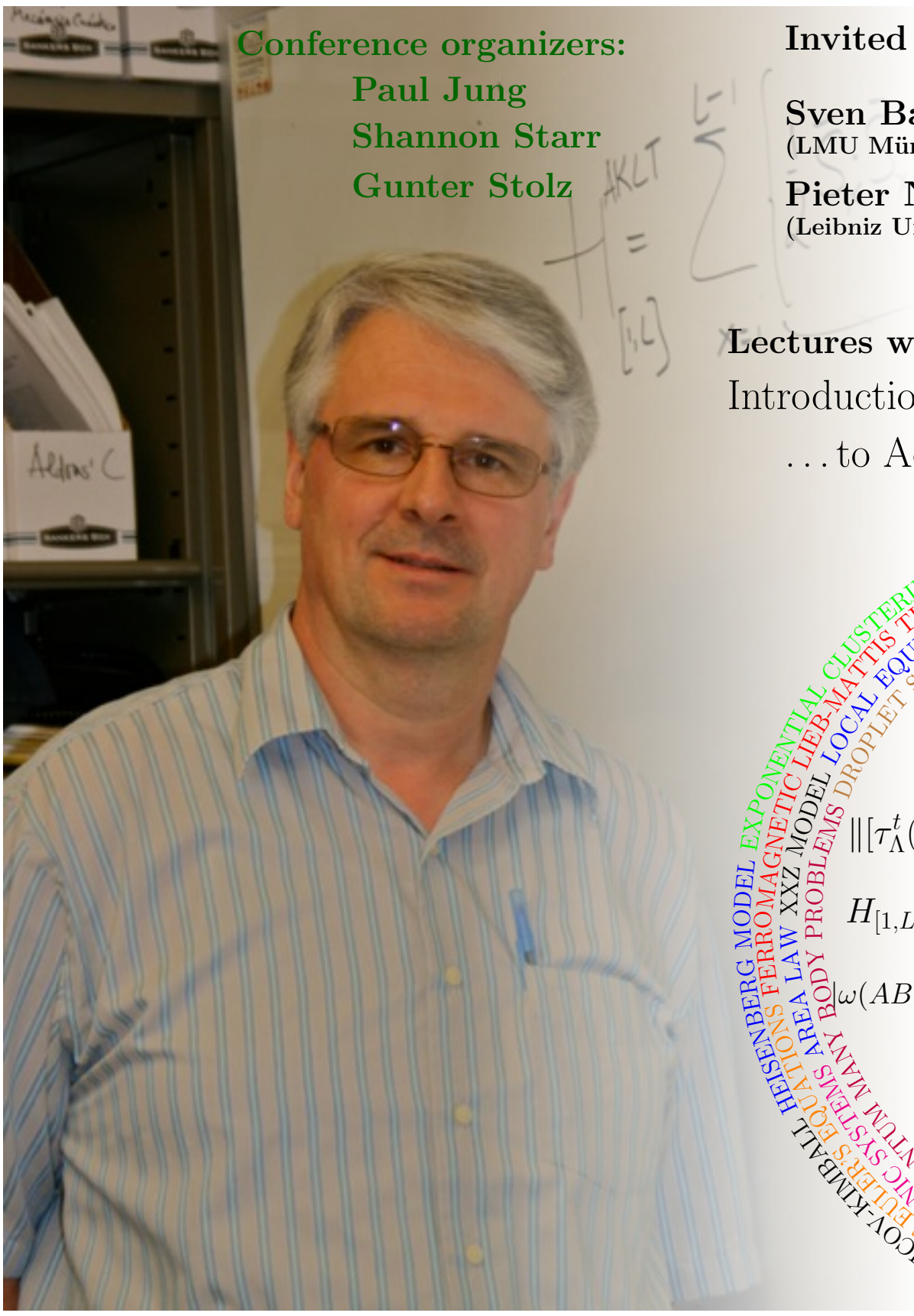
NSF-CBMS Conference on Quantum Spin Systems

University of Alabama at Birmingham

June 16–20, 2014

Principal Lecturer: Bruno Nachtergaele – U.C. Davis



Conference organizers:

Paul Jung
Shannon Starr
Gunter Stolz

Invited Lecturers:

Sven Bachmann
(LMU München)

Pieter Naaijkens
(Leibniz Universität Hannover)

Spiros Michalakis
(IQI @ Caltech)

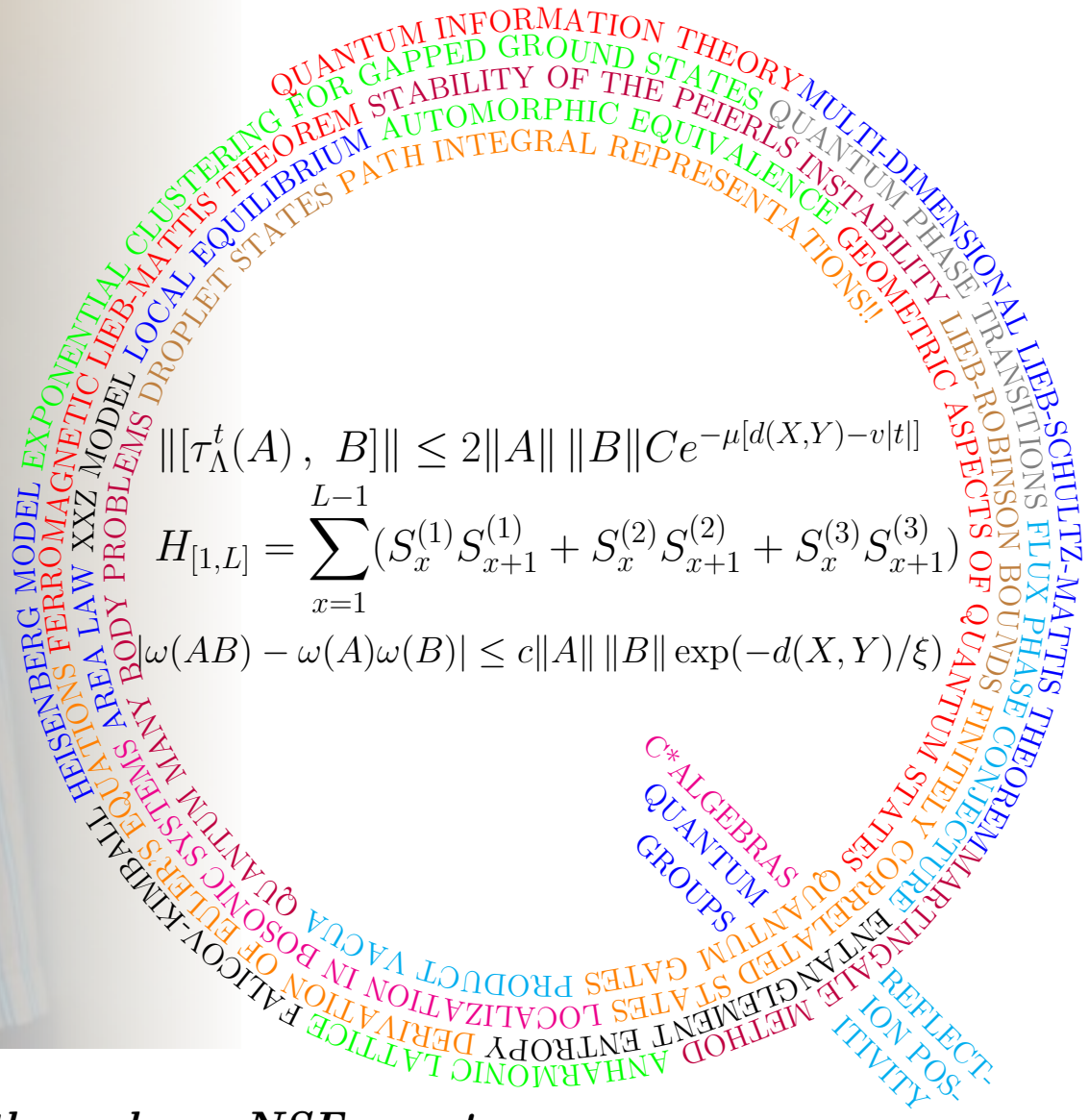
Robert Sims
(The University of Arizona)

Anna Vershynina
(IQI @ RWTH Aachen)

Lectures will cover

Introduction to Quantum Spin Systems

. . . to Advanced Topics & Open Problems!



$$\|[\tau_\Lambda^t(A)\,,\ B]\| \le 2\|A\|\,\|B\|Ce^{-\mu[d(X,Y)-v|t|]}$$

$$H_{[1,L]} = \sum_{x=1}^{L-1}(S_x^{(1)}S_{x+1}^{(1)} + S_x^{(2)}S_{x+1}^{(2)} + S_x^{(3)}S_{x+1}^{(3)})$$

$$|\omega(AB) - \omega(A)\omega(B)| \le c\|A\|\,\|B\|\exp(-d(X,Y)/\xi)$$

Support for participants is available through an NSF grant.

Graduate students, women, and under-represented minority groups are particularly encouraged to apply. The application procedure can be found at:

http://people.cas.uab.edu/~pjung/cbms.html

For information about the UAB mathematics department:

http://www.uab.edu/cas/mathematics/

National Science Foundation
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