

Ben Webster
CLE Moore Instructor

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Dear Committee Members:

I am writing to apply for a tenure-track position. I am currently a CLE Moore Instructor at the Massachusetts Institute of Technology. I received my Ph. D. in May 2007 from the University of California, Berkeley under the supervision of Nicolai Reshetikhin, and spent the school year 2007-08 at the Institute for Advanced Study, with the support of an NSF Postdoctoral Research Fellowship.

My research is on connections between algebraic geometry, representation theory, and knot theory. I'm currently studying how the geometry of quiver varieties and flag manifolds can be applied to the structure of quantum groups and the construction and study of homological knot invariants, including generalizations of Khovanov homology. I also have ongoing research into mirror duality for symplectic singularities and its connections to mathematical physics, geometric representation theory, and the combinatorics of hyperplane arrangements. This latter project is joint with an Oregon faculty member, N. Proudfoot, and some aspects of each are relevant to the interests of many others, including J. Brundan, V. Ostrik, and A. Vaintrob.

I have teaching experience leading sections of single and multiple variable calculus both at Berkeley and MIT, and working individually with graduate students.

I've arranged for letters of recommendation from N. Reshetikhin, M. Khovanov, R. Bezrukavnikov and T. Braden concerning my research and from A. Weinstein concerning my teaching to be sent via MathJobs.org as well as a CV, publication list, and research and teaching statements. All my papers and preprints are available from my website <http://math.mit.edu/~bwebster>. If you have any questions or want any additional materials, please contact me at the email address or phone number above.

I appreciate your time and look forward to hearing from you.

Sincerely yours,

Ben Webster