

Publications and preprints: Apoorva Khare

November 4, 2009

Relevant publications

- 2005 *Category \mathcal{O} over a deformation of the symplectic oscillator algebra*, Journal of Pure and Applied Algebra **195** No. 2 (2005), 131–166.
- 2006 *Category \mathcal{O} over the symplectic oscillator algebra*, Ph. D. Thesis, University of Chicago, June 2006.
- 2007 *Quantized symplectic oscillator algebras of rank one*, joint with Wee Liang Gan; Journal of Algebra **310** No. 2 (2007), 671–707.
- 2009 *Functoriality of the BGG Category \mathcal{O}* , Communications in Algebra **37** No. 12 (2009), 4431–4475.

Other publications

- 1997 *Divisibility tests*, Furman University Electronic Journal of Undergraduate Mathematics, Vol. **3**, Pages 1–5.
- 2007 *Divisibility tests and recurring decimals in Euclidean domains*, JP Journal of Algebra, Number Theory, and Applications (JPANTA) **7** No. 1 (2007), 1–32.
- 2009 *Vector spaces as unions of proper subspaces*, Linear Algebra and its Applications **431** No. 9 (2009), 1681–1686.

Accepted

- To appear *The BGG Category \mathcal{O}* , to appear in the Encyclopedia of Mathematics (Michiel Hazewinkel, Ed.), Kluwer Academic Publishers.
- 2008 *Center and representations of infinitesimal Hecke algebras of \mathfrak{sl}_2* , joint with Akaki Tikaradze; accepted for publication in *Communications in Algebra*; [arxiv:0807.4776](https://arxiv.org/abs/0807.4776).

Work in progress

- 2009 *Faces of polytopes and Koszul algebras*, joint with V. Chari and T.B. Ridenour.
- 2009 *Work in progress*, joint with A. Tikaradze.

Preprints

- 2007 *The sum of a finite group of weights of a Hopf algebra*, [math.RA/0701467](https://arxiv.org/abs/math.RA/0701467).
- 2007 *Drinfeld-Hecke algebras over cocommutative algebras*, [arxiv:0705.2067](https://arxiv.org/abs/0705.2067).
- 2008 *Axiomatic framework for the BGG Category \mathcal{O}* , [arxiv:0811.2080](https://arxiv.org/abs/0811.2080).
- 2009 *Abelian groups as unions of proper subgroups*, [arxiv:0906.1023](https://arxiv.org/abs/0906.1023).