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Date of List: 10/06/2010

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Publications and Preprints: available at <http://math.columbia.edu/~belias/publications.html>

- 2010 1. *A diagrammatic category for generalized Bott-Samelson bimodules and a diagrammatic categorification of induced trivial modules for Hecke algebras.* [arXiv:1009.2120](#).
2. *A diagrammatic Temperley-Lieb categorification.* [arXiv:1003.3416](#).
International Journal of Mathematics and Mathematical Sciences
special issue on Categorification in Representation Theory, 2010.
- 2009 3. *Rouquier complexes are functorial over braid cobordisms* (with D. Krasner). [arXiv:0906.4761](#).
Homology, Homotopy and Applications, Vol. 12 (2010), No. 2, pp.109-146.
4. *Diagrammatics for Soergel categories* (with M. Khovanov). [arXiv:0902.4700](#).
- 2007 5. *Minimal permutation representations of nilpotent groups* (with L. Silberman and R. Takloo-Bighash). [arXiv:0705.4122](#).
Journal of Experimental Mathematics, Volume 19, Issue 1 (2010), 121–128.
- 2005 6. *Minimally faithful group actions and p -groups.* Undergraduate thesis, Princeton University.

Selected Works in Progress

- *Diagrammatics for Hochschild Homology of Soergel Bimodules* with Pedro Vaz.
- *Diagrammatics for Singular Soergel Bimodules* with Geordie Williamson.
- *Categorifying Schur-Weyl duality diagrammatically* with Marco Mackaay and Geordie Williamson.
- *Diagrammatics for Soergel Bimodules in Dihedral Type.*
- *Diagrammatic categorifications of induced sign representations.*