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Radmila Sazdanovic* (rsazdan@ncsu.edu), Department of Mathematics NC State University, PO Box 8205, Raleigh, NC 27695, and **Carmen Caprau, Nicolle Gonzalez, Christine Ruey Shan Lee, Adam M. Lowrance** and **Melissa Zhang**. *On Khovanov Homology and Related Invariants*.

Rich algebraic structure of Khovanov-type theories also carries a lot of topological information about knots. In this talk we focus on two new applications. We extend Levine and Zemke's ribbon concordance obstruction and produce bounds on the alternation number and Turaev genus of a knot. (Received September 14, 2020)