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Zhiqin Lu* (zlu@uci.edu), Department of Mathematics, UC Irvine, Irvine, CA 92697. *On a common generalization of the Bottcher-Wenzel Inequality and the Normal Scalar Curvature Inequality.* Preliminary report.

In this talk, I will go over the Bottcher-Wenzel Inequality and the Normal Scalar Curvature Inequality. I will discuss a conjecture which gives a common generalization of the above two inequalities. This is a working project with David Wenzel. (Received January 01, 2015)