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Katie Ansaldi*, 255 Hurley Hall, Notre Dame, IN 46556, and **Kuei-Nuan Lin**. *A Dual Operation on Strongly Stable Ideals*.

We introduce a special dual ideal, the lcm-dual, for monomial ideals. We connect the lcm-dual and the Alexander dual for edge ideals. This operation has applications to finding special fiber rings for some classes of monomial ideals. We also find minimal free resolutions for the lcm-dual of strongly stable ideals generated in degree 2. (Received January 15, 2016)