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**David J. Bruce\*** (djbruce@umich.edu), 604 S. State St, Ann Arbor, MI 48104, and **Evan D. Nash, Ben Perez** and **Pete Vermeire**. *Betti Tables of Reducible Algebraic Curves*.

We study the Betti tables of reducible algebraic curves, focusing our attention on connected *line arrangements*, curves comprised of intersecting linear components. We provide a general formula for the quadratic strand of the Betti table for any line arrangement satisfying mild hypotheses. Building upon this result we give explicit formulas for the entries of the Betti tables for all curves of arithmetic genus zero or one. Finally, we give explicit formulas for the Betti numbers for a large class of curves of higher genus, as well as prove some general results on how the Betti numbers change when the line arrangements are modified. (Received July 25, 2012)