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Daniel Fiorilli* (fiorilli@umich.edu), **James Parks** (james.parks@uleth.ca) and **Anders Södergren**. *Low-lying zeros of elliptic curve L -functions: Beyond the ratios conjecture.*

We study the 1-level density of low-lying zeros of the L -functions attached to the family of quadratic twists E_d of a given elliptic curve E defined over \mathbb{Q} . For test functions whose Fourier transforms have sufficiently restricted support, we obtain an error term that is significantly sharper than the square-root cancellation predicted by the L -functions ratios conjecture of Conrey, Farmer and Zirnbauer. (Received September 11, 2013)