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**Kirsten Graham Wickelgren\*** ([kwickelgren3@math.gatech.edu](mailto:kwickelgren3@math.gatech.edu)), School of Math, Georgia Tech, 686 Cherry Street, Atlanta, GA 30332. *Arithmetic enrichments of curve counts.*

We prove that the local A1-Brouwer degree equals the quadratic form of Eisenbud–Khimshiashvili–Levine, answering a question posed by David Eisenbud in 1978. As an application, we investigate arithmetic enrichments of curve counts. This is joint work with Jesse Kass. (Received August 22, 2016)