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Levent Alpöge* (levent.alpoge@gmail.com). *Quadrics in arithmetic statistics.*

We will explain how to combine the delta method with Bhargava's counting technique in order to treat arithmetic statistical problems involving counting only orbits in the zero locus of a quadratic invariant.

We will do so by way of example, by explaining how to compute the average size of 2-Selmer groups in the families $y^2 = x^3 + B$ and $y^2 = x^3 + B^2$. (Received January 24, 2022)