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Wei Ho* (who@math.columbia.edu). *Applications of Explicit Moduli Spaces and Geometry of Numbers*. Preliminary report.

One method of proving statistics related to arithmetic objects has been to first explicitly parametrize the objects, and then apply geometry-of-numbers techniques to the integral points in the moduli spaces in order to count them. We discuss some new applications of this technique. (Received September 20, 2012)