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**Thomas Hulse, Mehmet Kiral, Chan Jeong Kuan and Li-Mei Lim\***  
(llim@simons-rock.edu). *Counting Square Discriminants.*

Hee Oh and Nimish Shah prove that the number of integral binary quadratic forms whose coefficients are bounded by a quantity  $X$ , and with discriminant a fixed square integer  $d$ , is  $cX \log X + O(X(\log X)^{3/4})$ . This result was obtained by the use of ergodic methods. Here we use the method of shifted convolution sums of Fourier coefficients of certain automorphic forms to obtain a sharpened result of a related asymptotic, obtaining a second main term and an error of  $O(X^{1/2})$ . (Received September 05, 2014)