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*Counting hyperelliptic curves on abelian surfaces with quasi-modular forms*

Let  $A$  be a polarized abelian surface. By a simple dimension count, we should expect a finite number of hyperelliptic curves in the class of the polarization, up to translation in  $A$ . In this talk we will go over a method to compute this, using Gromov-Witten theory, the crepant resolution conjecture, and the Yau-Zaslow formula.