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A Fourier-Mukai Approach to the Enumerative Geometry of Principally Polarized Abelian Surfaces

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(Submitted on 13 Jul 2011 (v1), last revised 18 Jul 2011 (this version, v2))

We study twisted ideal sheaves of small length on an irreducible principally polarized abelian surface (T,l). Using Fourier-Mukai techniques we associate certain jumping schemes to such sheaves and completely classify such loci. We give examples of applications to the enumerative geometry of T and show that no smooth genus 5 curve on such a surface can contain a g^1_3. We also describe explicitly the singular divisors in the linear system |2l|.

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