

*Department of Mathematics,  
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# Math 209 - Number Theory

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MIT

## Exceptional splitting of abelian surfaces over global function fields.

**Abstract:**

Let  $A$  denote a non-constant ordinary abelian surface over a global function field (of characteristic  $p > 2$ ) with good reduction everywhere. Suppose that  $A$  does not have real multiplication by any real quadratic field with discriminant a multiple of  $p$ . Then we prove that there are infinitely many places modulo which  $A$  is isogenous to the product of two elliptic curves. This is joint work with Davesh Maulik and Yunqing Tang.

**Special Note:**

There will be a preparatory lecture for graduate students and post-docs in the seminar room starting at 1:00pm.

Host: Ila Varma

**Thursday, February 14, 2019**

**2:00 PM**

**AP&M 7421**

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