

## Algebraic Geometry Seminar

*Nowhere vanishing one-forms and fibrations over abelian varieties*

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**Abstract:** A result of Popa and Schnell shows that any holomorphic one-form on a smooth complex projective variety of general type vanishes somewhere. In this talk, we will explore a complementary question: given a variety of intermediate Kodaira dimension, what can we say about the geometry of the variety if it carries a set of  $g$  pointwise linearly independent holomorphic one-forms? Our main result is a classification of all such varieties if the Kodaira "codimension" is equal to  $g$ . This is joint work with Ben Church and Feng Hao.

Friday, October 13 at 11:00 AM in 636 SEO