

## Algebraic Geometry Seminar

*Extension theorems for sections and cohomology classes under weak semipositivity conditions*

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**Abstract:** We describe a generalization of an  $L^2$  extension theorem due to Ohsawa-Takegoshi: the holomorphic sections or cohomology classes defined on an algebraic subscheme (or a non necessarily reduced analytic subvariety) can be extended under a weak semipositivity assumption. This even works with singular hermitian metrics, and the ambient subvariety need only be Kaehler and holomorphically convex, the total space of a projective morphism over an affine base being a typical situation.

Monday, April 24 at 4:00 PM in SEO 427