

George R. Kempf Lecture Series

Presents

“Resolution, metrics and harmonic forms.”

Tuesday, October 24, 2017

5:00-6:00PM

Hodson Hall 316

Given a ‘reasonable’ space perhaps singular or non-compact equipped with a Riemann metric on its interior, it is natural to try to find a corresponding extension of the Hodge theorem. That is, one tries to identify the harmonic forms, generally satisfying additional conditions, with some form of cohomology for the space. I will describe some of the classes of spaces and metrics for which this has been done, including recent progress for planar Hilbert schemes and Riemann moduli spaces and also indicate some at least of the many remaining questions.

Afternoon Tea

4:00PM-5:00 PM



Richard Melrose

Department of Mathematics

MIT

Additional Talk

Wednesday, October 25, 2017

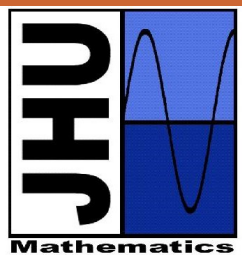
3:00-4:00 PM

Bloomberg 168

“Hodge theory for the Weil-Petersson metric on Riemann moduli spaces .”

Wine & Cheese

4:00PM-5:00PM



Support for the George R. Kempf Lecture Series is provided by the Kempf Memorial Endowment and the Department of Mathematics

For more information on the series visit our website at:

<http://www.mathematics.jhu.edu/new/resources/kempf.htm>