

# COLLOQUIUM

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*University of Notre Dame*  
*Department of Mathematics*

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Will give a lecture entitled  
**Stacky Resolutions of Singularities**

On

Thursday, January 23, 2014

at 4:00 PM in Room 231 Hayes-Healy Hall

**Abstract:**

We will discuss a technique which allows one to approximate singular varieties by smooth spaces called stacks. As an application, we will address the following question, as well as some generalizations: given a linear action of a group  $G$  on complex  $n$ -space  $\mathbb{C}^n$ , when is the quotient  $\mathbb{C}^n/G$  a singular variety? We will also mention some applications to Hodge theory and to derived equivalences.