

Columbia University

Algebraic Geometry Seminar

Herb Clemens

University of Utah and IAS

PROPOSAL FOR CONSTRUCTING A FORMAL
“SUPERPOTENTIAL FUNCTION” VIA KURANISHI THEORY

Let S be a compact oriented real 2-manifold. For Calabi-Yau threefolds X , physical theory predicts a function f on some smooth space of C^∞ -immersions $S \rightarrow X$ such that the maps whose image is an algebraic curve are given as the zero-scheme of df . We use Kuranishi theory to propose a formal function f with the (formal analogue of the) desired property.

Friday, September 28, 2001

2:30pm

Mathematics 417