



DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Colloquium

HOW MUCH DOES A VARIETY IN CHARACTERISTIC p KNOW
ABOUT ITS LIFTINGS?

Shizhang Li
IAS/Morning Center of Mathematics

ABSTRACT:

This talk is a gentle introduction to algebraic/arithmetic geometry where characteristic 0 and characteristic p geometry interplay with each other. We will explain the meaning of the question in the title, then present some results obtained in the past. In the end, we will say a few words on why/how the said question is related to the study of properties of the prismatic cohomology theory of Bhatt–Morrow–Scholze and Bhatt–Scholze.

4 – 5pm

Wednesday, October 04, 2023

Room 204, Smith Hall