

1163-11-1280

Sachi Hashimoto, Katrina Honigs, Alicia Lamarche and Isabel Vogt*

(ivogt.math@gmail.com). *Transcendental Brauer-Manin obstructions on a Calabi-Yau threefold.*

In this talk, I will discuss arithmetic aspects of a family Calabi-Yau threefolds originally studied by Hosono and Takagi in the context of mirror symmetry. These varieties come equipped with a natural 2-torsion Brauer class, and we show that under mild conditions on the threefold, this gives a transcendental Brauer-Manin obstruction to weak approximation. (Received September 15, 2020)