



Mathematics and CS Seminar

On integral points on open degree four del Pezzo surfaces

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Host: Tim Browning

I will report on investigations, joint with Damaris Schindler (Göttingen), concerning the algebraic and transcendental Brauer-Manin obstructions to integral points on complements of a hyperplane section in degree four del Pezzo surfaces. We discuss moreover two concepts of an obstruction at an archimedean place. Concrete examples are given of pairs of non-homogeneous quadratic polynomials in four variables representing $(0,0)$ over \mathbb{Q} and over \mathbb{Z}_p for all primes p , but not over \mathbb{Z} . By blow-up, these yield cubic polynomials in three variables all integral solutions of which satisfy a gcd condition.

Thursday, January 28, 2021 02:00pm - 03:00pm

IST Austria Campus <https://mathseminars.org/seminar/AGNTISTA>



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