Upstate New York Online Number Theory Colloquium

Time and Date: 12:00 pm EST March 22, 2021

Speaker: David Harbater

Title: Local-global principles over semi-global fields

Abstract: Local-global principles have classically been studied in the context of global fields; i.e., number fields or function fields of curves over finite fields. In recent years, they have also been studied over what have come to be known as semi-global fields, a class that includes function fields of p-adic curves. Classical results such as the Hasse-Minkowski theorem have been carried over to this context, though with very different proofs. The talk will present results in this direction, including ongoing work of the speaker with J-L. Colliot-Thélène, J. Hartmann, D. Krashen, R. Parimala, and V. Suresh.