Seminar/Talk

Fibration method over F_q(t)

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Host: Tim Browning

Determining whether a given diophantine equation has a solution is a wide open question in number theory. For some varieties -- e.g. quadrics -- the existence of local points is enough to determine the existence of global points: this is known as the Hasse principle. Nevertheless, the latter does not hold for cubic forms, as shown by Selmer in 1951. Manin introduced in 1970 a set called the Brauer-Manin set, which is expected to describe all obstructions to the Hasse principle, at least for the wide family of rationally connected varieties.In this talk, I shall present a work in progress which explains how this Brauer-Manin setting is related to fibrations over P^1, whenever the base field is the function field of a curve over a large finite field.

Thursday, May 23, 2024 01:00pm - 03:00pm
Office Bldg West / Ground floor / Heinzel Seminar Room (I21.EG.101)

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