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**DAVID MCKINNON**, University of Waterloo

*Rational curves and rational points*

Amongst curves, the mighty genus zero boasts the largest number of rational points. Can it be that these curves are always present when rational points are found in abundance?

It can.

In the talk, I'll discuss a number of cases in which we can actually prove statements like this, and a whole bunch more where we're pretty sure we *could* prove it, if only we were smarter.