
DAVE MCKINNON, University of Waterloo

How do rational points cluster on wonderful varieties?

Rational points tend to keep their distance from one another. (Not like those irrational points, that can get unseemly close.) But how much distance do they keep? How complicated must two rational points be to be really close to each other? Luckily for my mortgage payments, this question turns out to be pretty complicated in general, and yet still amenable to analysis and computation. I'll give an overview of the situation in general, and then describe how the case of wonderful compactifications of Lie groups of adjoint type fits in.