

Jean-Morlet Chair - Conference
Arithmetic Statistics - Statistiques arithmétiques

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Title: *Quadratic twist families of elliptic curves with unusual 2^∞ -Selmer groups*

Abstract: Given any elliptic curve E over the rationals, we show that 50% of the quadratic twists of E have 2^∞ -Selmer corank 0 and 50% have 2^∞ -Selmer corank 1. As a result, we show that Goldfeld's conjecture follows from the Birch and Swinnerton–Dyer conjecture.