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K3 surfaces: Rational points, rational curves, and where to find them

In 1981, Fedor Bogomolov conjectured that every rational point on a K3 surface lies on a rational curve on that surface. While this conjecture is still an open problem, it is widely believed to be false. In this talk, I'll describe the conjecture, give some background, and describe one idea of how to disprove the conjecture.