## DMV-PTM Mathematical Meeting 17–20.09.2014, Poznań Mordell-Weil ranks in families of elliptic curves parametrized by binary quadratic forms

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Session: 3. Arithmetic Geometry

I will discuss certain results about ranks in families of elliptic curves parametrized by binary quadratic forms. I will explain how we can establish sharp bounds for the Mordell-Weil rank of elliptic curves over rational function field and apply those to describe the ranks of the Mordell-Weil group after specialization.