

# COLLOQUIUM

Rationality problem of the Coble quartic

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# Abstract

The rationality problem of certain moduli spaces has been a main interest to many algebraic geometers. In this talk, we introduce the Coble quartic which is the moduli space of semistable vector bundles of rank 2 with the canonical determinant over a non-hyperelliptic curve of genus 3. We consider similar moduli spaces over the projective plane and investigate the rational maps defined by restriction. With this method, we obtain several geometric structure of the Coble quartic and suggest a new idea to attack the rationality problem. Applying this idea, we obtain new facts about the moduli spaces over curves of higher genus.