A uniformization for the moduli space of abelian varieties of dimension six

Gavril Farkas

Humboldt Universität zu Berlin, Germany
`farkas@math.hu-berlin.de`

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The general principally polarized abelian variety of dimension at most five is known to be a Prym variety. This reduces the study of abelian varieties of small dimension to the beautifully concrete theory of algebraic curves. I will discuss recent progress on finding a structure theorem for principally polarized abelian varieties of dimension six, and the implications this uniformization result has on the geometry of the moduli space A_6.