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Extremality of Weierstrass points on genus-two curves.

The locus of genus-two curves with n marked Weierstrass points has codimension n inside the moduli space of genus-two curves with n marked points, for $n \leq 6$. It is well known that the class of the divisor obtained for $n = 1$ spans an extremal ray of the cone of effective divisor classes of the moduli space of stable genus-two curves with one marked point. We generalize this result for all n : we show that the class of the closure of the locus of genus-two curves with n marked Weierstrass points spans an extremal ray of the cone of effective classes of codimension n , for $n \leq 6$. (Received February 14, 2016)