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The Weierstrass semigroup of a pair and moduli in \mathcal{M}_3 . (English) Zbl 1077.14534
Bol. Soc. Bras. Mat., Nova Sér. 32, No. 2, 149-157 (2001).

Summary: We classify all the Weierstrass semigroups of a pair of points on a curve of genus 3, by using its canonical model in the plane. Moreover, we count the dimension of the moduli of curves which have a pair of points with a specified Weierstrass semigroup.

MSC:

[14H55](#) Riemann surfaces; Weierstrass points; gap sequences
[14H10](#) Families, moduli of curves (algebraic)
[14H45](#) Special algebraic curves and curves of low genus
[14H50](#) Plane and space curves

Cited in **1** Review
Cited in **3** Documents

Full Text: [DOI](#)

References:

- [1] E. Arbarello, M. Cornalba, P.A. Griffiths and J. Harris, Geometry of algebraic curves. Vol. I, Springer-Verlag, 1985. · [Zbl 0559.14017](#)
- [2] M. Homma, The Weierstrass semigroup of a pair of points on a curve. Arch. Math.67: (1996), 337-348. · [Zbl 0869.14015](#) · [doi:10.1007/BF01197599](https://doi.org/10.1007/BF01197599)
- [3] S.J. Kim, On the index of the Weierstrass semigroup of a pair of points on a curve. Arch. Math.62: (1994), 73-82. · [Zbl 0815.14020](#) · [doi:10.1007/BF01200442](https://doi.org/10.1007/BF01200442)
- [4] L. Vermeulen, Weierstrass points of weight two on curves of genus three. Thesis, Amsterdam University, 1983. · [Zbl 0534.14010](#)

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