



CURVAS ALGÉBRICAS E TEMAS AFINS

**Weierstrass semigroups at $m+1$ rational points in maximal curves
which cannot be covered by the Hermitian curve**

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Resumo: We determine the Weierstrass semigroup $H(P_1; P_1; \dots; P_m)$ at several rational points on the maximal curves which cannot be covered by the Hermitian curve introduced by Tafazolian, Teheran and Torres in 2016. Furthermore, we present some conditions to find pure gaps. We use this semigroup to obtain AG codes with better relative parameters than comparable one-point AG codes arising from these curves.