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Cyclic coverings of an elliptic curve with two branch points and the gap sequences at the ramification points. (English) [Zbl 0938.14012](#)

Acta Arith. 81, No. 3, 275-297 (1997).

Here the author constructs a cyclic covering $\pi : X \rightarrow E$ with X a smooth curve of genus $g \geq 7$, E an elliptic curve, π a cyclic covering ramified at exactly two points, say P and Q , which are totally ramified and such that (seeing them as Weierstrass points on X) their gap sequence is $\{1, \dots, g-2, g, 2g-1\}$ (characteristic 0).

Reviewer: [E.Ballico \(Povo\)](#)

MSC:

[14H55](#) Riemann surfaces; Weierstrass points; gap sequences

[14H52](#) Elliptic curves

[11G05](#) Elliptic curves over global fields

[14H30](#) Coverings of curves, fundamental group

[14E20](#) Coverings in algebraic geometry

Keywords:

total ramification point; cyclic covering; smooth curve; Weierstrass points; gap sequence

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