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**Rank 2 Ulrich bundles on general double plane covers.** (English) [Zbl 07389879]


Summary: We prove that a double cover of $\mathbb{P}^2$ ramified along a general smooth curve $B$ of degree $2s$, for $s \geq 3$, supports a rank 2 special Ulrich bundle.

MSC:

- 14E20 Coverings in algebraic geometry
- 14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli
- 14H50 Plane and space curves

Keywords:

- Ulrich bundles; double planes; Cayley-Bacharach

Full Text: DOI

References:

[7] Casnati, Gianfranco, Ulrich bundles on non-special surfaces with $p_g = q = 0$, Rev. Mat. Complut., 32, 2, 559-574 (2019); Ulrich bundles on non-special surfaces with $p_g = q = 0$, Rev. Mat. Complut., 32, 2, 575-577 (2019), Correction to: · Zbl 1411.14047
with an appendix by S. I. Gelfand · Zbl 1237.14003


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