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Hyperplane section $\mathbb{O}\mathbb{P}_0^2$ of the complex Cayley plane as the homogeneous space F_4/P_4 .
(English) [Zbl 1249.32019](#)

Commentat. Math. Univ. Carol. 52, No. 4, 535-549 (2011).

The authors present a transitive action of the exceptional complex Lie group F_4 on the hyperplane section of the complex Cayley plane $\mathbb{O}\mathbb{P}^2$. Clifford algebras, spin groups and the representation theory are used.

Reviewer: [Alena Vanžurová \(Olomouc\)](#)

MSC:

32M12 Almost homogeneous manifolds and spaces

14M17 Homogeneous spaces and generalizations

Keywords:

Cayley plane; octonionic contact structure; twistor fibration; parabolic geometry; Severi variety; hyperplane section; exceptional geometry

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