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Quasi-decompositions and quasidirect products of Hilbert algebras. (English) [Zbl 07438421](#)
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Analyzing the direct decomposition of Hilbert algebras into two components, *E. L. Marsden* [*J. Nat. Sci. Math.* 14, 23–34 (1974; [Zbl 0334.02028](#))] showed that if a Hilbert algebra $(A, \rightarrow, 1)$ is isomorphic to a direct product of Hilbert algebras, then each factor is isomorphic to a filter of A . In this paper, the author deals with some special cases of this problem, but deals, instead of direct decompositions of a Hilbert algebra, with its so called quasi-direct decompositions which are introduced by himself in [*Contrib. Gen. Algebra* 16, 25–34 (2005; [Zbl 1082.03056](#))].

Reviewer: [Daniel Romano \(Banja Luka\)](#)

MSC:

[03G25](#) Other algebras related to logic
[06A15](#) Galois correspondences, closure operators (in relation to ordered sets)

Keywords:

compatible Hilbert algebra; Hilbert algebra; pseudocomplemented Hilbert algebra; relatively pseudocomplementd Hilbert algebra; quasi-decomposition; quasidirect product; split exact sequence

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