

**Battle, Guy; Federbush, Paul**

**Divergence-free vector wavelets.** (English) Zbl 0798.42022  
Mich. Math. J. 40, No. 1, 181-195 (1993).

For any positive integer  $N$  the authors construct a divergence-free wavelet orthonormal basis in three-dimensional vector fields with vanishing divergence, where wavelets belong to the class  $C^N$  and have exponential decay.

Reviewer: [M.Berkolajko \(Voronezh\)](#)

**MSC:**

[42C40](#) Nontrigonometric harmonic analysis involving wavelets and other special systems  
[46E40](#) Spaces of vector- and operator-valued functions

Cited in **13** Documents

**Keywords:**

divergence-free wavelet orthonormal basis; three-dimensional vector fields

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