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Poincaré-Bertrand transformation formula of Cauchy-type singular integrals in Clifford analysis. (English) [Zbl 1238.30036](#)

Complex Var. Elliptic Equ. 57, No. 2-4, 197-217 (2012).

The authors investigate the Poincaré-Bertrand transformation formula of Cauchy-type singular integrals of double multi-variables Clifford functions by using a Grassman algebra and compact Lyapunov surfaces based on the paper of *S. Huang* [Acta Math. Sin. 41, No. 1, 119–126 (1998; [Zbl 1059.30040](#))].

Reviewer: [Chuangan Hu \(Palo Alto\)](#)

MSC:

- [30G30](#) Other generalizations of analytic functions (including abstract-valued functions) Cited in 2 Documents
- [30G35](#) Functions of hypercomplex variables and generalized variables
- [45E05](#) Integral equations with kernels of Cauchy type

Keywords:

Clifford analysis; Cauchy principal value; Cauchy type singular integral with a parameter; transformation formula; Grassman algebra; compact Lyapunov surfaces

Full Text: [DOI](#)

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