

A method for separation of classes of linear conjugation problems for three-dimensional vector

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Abstract

© 2015, Allerton Press, Inc. We consider structure of the set of piecewise-meromorphic solutions of the homogeneous linear conjugation problems for three-dimensional vector, and study their relations with a system of two problems of fractional-linear conjugation. The main result of the paper is the following one: known two piecewise-meromorphic solutions of the system, we are able to construct a canonical system of solutions to the linear conjugation problem and to separate a class of problems resolvable in closed form

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Keywords

fractional-linear conjugation problem, linear conjugation problem, matrix-function