

## Some classes of linear conjugation problems for a three-dimensional vector that are solvable in closed form

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### Abstract

© 2015, Pleiades Publishing, Ltd. We consider the structure of the set of piecewise meromorphic solutions for a homogeneous linear conjugation problem for a three-dimensional vector. We show that, in the presence of two piecewise meromorphic solutions to the linear conjugation problem, it is possible to construct a canonical system of solutions to the linear conjugation problem and distinguish some classes of problems solvable in closed form.

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### Keywords

factorization, linear conjugation problem, matrix-function