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**Stokes multipliers for a certain third order differential equation of W. B. Ford's type.**

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A certain linear third order differential equation of Fuchs type with complex independent variable  $z$  is investigated. The aim of this paper is to solve this equation in the large under certain suppositions on the polynomial coefficients, on the roots of the indicial equation about  $z = 0$  and on the indicial exponents about  $z = \infty$ .

Reviewer: M.Greguš (Bratislava)

**MSC:**

- [34M99](#) Ordinary differential equations in the complex domain
- [34E05](#) Asymptotic expansions of solutions to ordinary differential equations
- [34E20](#) Singular perturbations, turning point theory, WKB methods for ordinary differential equations
- [34A25](#) Analytical theory of ordinary differential equations: series, transformations, transforms, operational calculus, etc.
- [34D05](#) Asymptotic properties of solutions to ordinary differential equations

**Keywords:**

linear third order differential equation of Fuchs type