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**Construction of an approximate solution in the neighborhood of a moving singular point for the second Painlevé equation.** (Russian. English summary) [Zbl 1049.34111](#)

Vestn. Beloruss. Gos. Univ., Ser. 1, Fiz. Mat. Inform. 2002, No. 1, 79-85, 116 (2002).

Summary: An approximate solution in the form of a Laurent series near a moving singular point is constructed. The error of the solution is estimated.

**MSC:**

- 34M55** Painlevé and other special ordinary differential equations in the complex domain; classification, hierarchies
- 34M35** Singularities, monodromy and local behavior of solutions to ordinary differential equations in the complex domain, normal forms