

Symmetries and apparent singularities for simplest Fuchsian equation

Sergei Slavyanov

Simplest Fuchsian second order equations with particular emphasize to the role of apparent singularities are presented. The limiting transfer from Heun equation to hypergeometric equation is studied. The relation to Painlevé equation is exposed. Matrix formulation of the problem is traced. The talk is closing a gap in previous publications of the author.

Sergei Slavyanov
Sankt-Petersburg State University
198506, Petergof, Botanicheskaya 3

e-mail: slav@ss2034.spb.edu