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Abstracts of Short Communications and Posters

Section:

9. Ordinary Differential Equations and Dynamical Systems

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Application of Apparent Monodromy Groups

Let S_α be a set of solutions of a LDE containing a parameter α, which is fundamental at a value of α. S_α often turns nonfundamental when the monodromy group with respect to it is reducible. So the reducibility has been got as only necessary condition and special argument must have been held whether it is also sufficient. In 1993, the author introduced the concept of *apparent monodromy groups* and showed that the condition is always sufficient if the coefficients of LDE and S_α depend holomorphically on α.
In this poster, application of apparent monodromy groups is shown in the case of Pochhammer's equation.