

Colloquium

Junyang Yu,

Dept of Mathematics Shanghai Jiao Tong University P.R. China

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2:00 p.m., HH-3017

ON EXTENSIONS OF THE FIELD OF MEROMORPHIC FUNCTIONS

Abstract:

The ideas of universal function elements and universal germs (among other things) are introduced and these ideas are used to obtain an algebraic closure of the field of meromorphic functions, whose operations are carried out in the normal way. Using the notions introduced here, algebraic operations in a class of new algebroid functions may freely be carried on. The ideas and notions introduced in this paper and the theorems obtained in this paper provide a basis for further research of the algebraic theory of complex differential equations.