

Contents

Preface — V

Part I

J. Dereziński

Group-theoretical origin of symmetries of hypergeometric class equations and functions — 3

J. Rafael Sendra and Franz Winkler

The algebro-geometric solution method for algebraic differential equations – an introduction by examples — 129

Masafumi Yoshino

Movable singularity of some Hamiltonian systems — 147

Jorge Mozo Fernández

Some aspects of summability — 171

Shingo Kamimoto

Convolution product and resurgence — 219

Part II

Toshinori Takahashi and Mika Tanda

The relation between the Bessel function and the Borel sum of the WKB solution — 245

Yumiko Takei

A relation between the exact WKB analysis and the topological recursion – in the case of the Gauss hypergeometric differential equation — 259

Federico Zullo

On the solutions of the Airy equation and their zeros — 267

Saiei-Jaeyeong Matsubara-Heo

Intersection theory for Euler integral representations of GKZ hypergeometric functions: Appell's F_1 case — 283