List of Publications

Shinji Sasaki

January 31, 2025

Papers

[1] S. Sasaki. Borel summability of WKB-theoretic transformation near a pair of turning points. To be submitted.

[2] S. Sasaki. Connection formulas around a double turning point via Borel summability of transformation series. To appear in *RIMS Kôkyûroku* (6 pages).

[3] S. Sasaki. Borel summability of WKB-theoretic transformation near a double turning point. To appear in *RIMS Kôkyûroku Bessatsu* (21 pages, accepted in 2022).

[4] S. Hirose, T. Kawai, S. Sasaki and Y. Takei. On the Stokes geometry of perturbed tangential Pearcey Systems. *Publications of the Research Institute for Mathematical Sciences*, **57.3** (2021), 727–754.

[5] S. Sasaki. On parametric Stokes phenomena of higher order linear ODEs. *RIMS Kôkyûroku Bessatsu*, **B61** (2017), 163–180.

[6] S. Sasaki. A bifurcation phenomenon of Stokes curves around a double turning point, and influence of virtual turning points upon the transition probabilities for three-level systems. *Advances in Mathematics*, **301** (2016), 711–738.

[7] S. Sasaki. On the inevitable influence of virtual turning points on the nonadiabatic transition probabilities for three-level systems. RIMS preprint, No. 1818 (8 pages), 2015.

[8] S. Sasaki. Borel summability of WKB theoretic transformation to the Weber equation, *RIMS Kôkyûroku*, **1861** (2013), 140–145.

[9] S. Sasaki. On the Classification of Stokes Graphs for Second Order Fuchsian Equations. Master Thesis (44 pages), 2010.

Monographs

[10] S. Hirose, N. Honda, T. Kawai, S. Sasaki and Y. Takei. Virtual Turning Points II –Their interplay with integral representations and non-hereditary turning points– Submitted to *Springer Nature*.