Workshop on Mirror Symmetry and Related Topics, Kyoto 2026

Duration: 14-16 December 2026
Venue: Room 127 (Graduate School of Science Bldg no.3), Department of Mathematics, Kyoto University

The workshop website:
`https://www.math.kyoto-u.ac.jp/~iritani/mirrorsymmetry2026/Workshop2026.html`.

Schedule:

	9:30-10:15	10:15-11:15	11:45-12:45	lunch	14:30-15:30	16:00-17:00
14 Mon	registration	TBA	TBA		TBA	TBA
15 Tue	$\star$	TBA	TBA		TBA	TBA
16 Wed	$\star$	TBA	TBA		TBA	TBA

$\star$: free discussion

Talks:

Tomohiro Asano	TBA
Kwokwai Chan	TBA
You-Cheng Chou	TBA
Chi Hong Chow	TBA
Kohei Iwaki	*Resurgence and Modularity in Topological Recursion and the Painlevé Property*
Atsushi Kanazawa	TBA
Tatsuki Kuwagaki	*Homological mirror symmetry over the Novikov ring*
Chin-Hang Eddie Lam	TBA
Shinnosuke Okawa	TBA
Tomoki Yoshida	TBA

Organizers: Hiroshi Iritani, Yukiko Konishi, Atsushi Takahashi

Acknowledgments: This workshop is supported by the Research Project on Academic Research Trends (JSPS) (Atsushi Takahashi) and Kiban-B 23K25770 (Hiroshi Iritani).

Talks

Tomohiro Asano
TBA

TBA

Kwokwai Chan
TBA

TBA

You-Cheng Chou
TBA

TBA

Chi Hong Chow
TBA

TBA

Kohei Iwaki
Resurgence and Modularity in Topological Recursion and the Painlevé Property

Topological recursion provides a systematic construction of formal expansions associated with spectral curves and has deep connections to mirror symmetry. A natural question is how the global analytic properties of the corresponding nonperturbative objects can be understood through resurgence. In this talk, I will discuss these structures in the context of the first Painlevé equation. Building on conjectural formulas for nonlinear Stokes phenomena, I will explain how Stokes transformations can be described in terms of cluster transformations, following joint work with Marcos Mariño (arXiv:2307.02080 [hep-th]). The periodicity of cluster transformations then provides a mechanism for understanding the single-valuedness of Painlevé transcendents, known as the Painlevé property. I will also explain how the modular transformations of the topological recursion partition function enter the description of nonlinear Stokes phenomena. This illustrates how topological recursion, resurgence, and modularity interact to reveal global analytic properties of nonlinear differential equations. This talk is based on joint work with Noam Tamarin (Lisbon), arXiv:2610.38584 [hep-th].

Atsushi Kanazawa
TBA

TBA

Tatsuki Kuwagaki
Homological mirror symmetry over the Novikov ring

Homological mirror symmetry (HMS) is usually formulated and proved over fields. Thus, in situations involving infinitely many holomorphic disks, it is formulated over the Novikov field. Since the Fukaya category is in fact defined over the Novikov ring, it is natural to ask whether HMS can be lifted to a statement over this ring. In this talk, I will present a conjectural formulation of HMS over the Novikov ring and discuss some nontrivial checks.

Chin-Hang Eddie Lam
K-theoretic shift operators (work in progress)

TBA

Shinnosuke Okawa

TBA

TBA

Tomoki Yoshida

TBA

TBA