Programme

◼ Monday, June 18

8:45-9:00	Opening address by Motoko Kotani (Tohoku University)
9:00-9:50	Mohammed Abouzaid (Columbia University) *"Homological mirror symmetry via families of Lagrangians"*
9:50-10:40	Nima Arkani-Hamed (IAS) *"Spacetime, quantum mechanics and positive geometry at infinity"*
10:40-11:20	Coffee break
11:20-12:10	Maissam Barkeshli (University of Maryland, College Park) *"Space-time reflection anomalies in (2+1)D topological quantum field theories"*
12:10-14:00	Lunch
14:00-14:50	Francis Brown (All Souls College, Oxford) *"Open and closed superstring amplitudes in genus 0 and 1"*
14:50-15:40	Masahito Yamazaki (Kavli IPMU, University of Tokyo) *"Integrability as duality"*

[Moving to Sakura Hall, Katahira Campus]

17:00-18:30	Gong show
18:30-20:30	Welcome reception (All participants are invited)

◼ Tuesday, June 19

9:00-9:50	Antonella Grassi (University of Pennsylvania) *"Terminal singularities and F-theory"*
9:50-10:40	Jeffrey Harvey (University of Chicago) *"Hecke relations in rational conformal field theory"*
10:40-11:20	Coffee break
11:20-12:10	Mikhail Kapranov (Kavli IPMU, University of Tokyo) *"Perverse schobers and application"*
12:10-14:00	Lunch
14:00-14:50	Christoph Keller (ETH Zurich) *"Holographic orbifold CFTs"*
14:50-15:30	Coffee break
15:30-16:20	Zohar Komargodski (Simons Center) *"Topological aspects of 2+1 dimensional gauge theories"*
16:20-17:10	Marcos Marino (University of Geneva) *"Topological strings, resurgence, and quantum mechanics"*

◼ Wednesday, June 20

9:00-9:50	Victor Mikhaylov (Simons Center) *"Teichmüller TQFT, complex Chern-Simons theory and duality"*
9:50-10:40	Gregory Moore (Rutgers University) *"On four-manifolds and N=2 supersymmetric field theory"*
10:40-11:20	Coffee break
11:20-12:10	David Morrison (UC Santa Barbara) *"Abel-Jacobi mappings and mirror symmetry for open strings"*

[Afternoon free]

◼ Thursday, June 21

9:00-9:50	Hiraku Nakajima (Kavli IPMU, University of Tokyo) *"3d N=4 QFT and ring objects on the affine Grassmannian"*
9:50-10:40	Tony Pantev (University of Pennsylvania) *"Mirror symmetry, intersection of quadrics, and Hodge theory"*
10:40-11:20	Coffee break
11:20-12:10	Leonardo Rastelli (C. N. Yang Institute for Theoretical Physics, Stony Brook.) *"Free field realizations of vertex operator algebras from the Higgs branch"*
12:10-14:00	Lunch
14:00-14:50	Jörg Teschner (University of Hamburg and DESY) *"Quantum curves, integrability and topological string partition functions"*
14:50-15:30	Coffee break
15:30-16:20	Yukinobu Toda (Kavli IPMU, University of Tokyo) *"Birational geometry for d-critical loci and wall-crossing in Calabi-Yau 3-folds"*
16:20-17:10	Mirjam Cvetic (University of Pennsylvania) *"Global constraints on matter representations in F-theory"*
19:00-21:00	Banquet (reception starts at 18:30)

◼ Friday, June 22

Special Sessions for celebrating the Anniversaries of CY, TFT and Topological String

9:00-9:50	Edward Witten (IAS) *"Open-closed topological gravity in two dimensions"*
9:50-10:40	Cumrun Vafa (Harvard University) *"Topological strings on compact CY and SCFT's"*
10:40-11:20	Coffee break
11:20-12:10	Mina Aganagic (UC Berkeley) *"Knot categorification from geometry, via string theory"*
12:10-14:00	Lunch
14:00-14:50	Dan Freed (University of Texas at Austin) *"Extended topological field theory and the 2-dimensional Ising model"*
14:50-15:30	Coffee break
15:30-16:20	Andrew Neitzke (University of Texas at Austin) *"Abelianization in complex Chern-Simons theory"*
16:20-17:10	Si Li (Tsinghua University) *"Semi-infinite Hodge structure: from BCOV theory to Seiberg-Witten geometry"*
17:10-17:20	Closing remark by Ron Donagi (University of Pennsylvania)

Special Lecture on the Fifth Anniversary of the Tohoku Forum for Creativity

17:30-18:20	Shing-Tung Yau (Harvard University) *"Brief history of Calabi-Yau manifold related to string theory"*