# MIST 2017-I: Mathematics Inspired by String Theory February 3-14, 2017

Jointly organized by The Institute of Mathematical Sciences & Department of Mathematics, CUHK

Academic Building No. 1 & Lady Shaw Building The Chinese University of Hong Kong

## PROGRAM

## FEBRUARY 3 (FRIDAY)

09:30 - 10:30	AB1 502a	<b>Ying XIE</b> (CUHK) Categorical Plucker formula and HPD: introduction, the results and how to understand them
11:00 - 12:00	AB1 502a	<b>Qingyuan JIANG</b> (CUHK) Categorical Plucker formula and HPD: tools and strategy of the proof

**FEBRUARY 4 (SATURDAY)** [also as part of Hong Kong Geometry Colloquium]

09:45 – 10:45	AB1 502a	<b>Cheol-Hyun CHO</b> (Seoul National University, Korea) Globalizing localized mirror functors - the case of punctured Riemann surfaces
10:45 – 11:00	5B Lobby	TEA RECEPTION
11:00 – 12:00	AB1 502a	<b>Jeehoon PARK</b> (POSTECH, Korea) Chern-Simons theory for Galois representations (I)

12:00 HKGCLUNCH

## **FEBRUARY 7 (TUESDAY)**

14:00 - 16:00	AB1 501a	Wanmin LIU (IBS, Korea) Bridgeland Stability Conditions (I)
16:00 - 16:30	5B Lobby	TEA RECEPTION
16:30 - 17:30	AB1 501a	Jeehoon Park (POSTECH, Korea) Chern-Simons theory for Galois representations (II)

#### FEBRUARY 8 (WEDNESDAY)

11:00 - 12:00	AB1 502a	<b>Young-Hoon KIEM</b> (Seoul National University, Korea) Gauge theory and invariants in algebraic geometry
14:00 - 16:00	AB1 502a	Wanmin LIU (IBS, Korea) Bridgeland Stability Conditions (II)

#### **FEBRUARY 9 (THURSDAY)**

14:00 - 16:00	AB1 502a	Wanmin LIU (IBS, Korea)
		Bridgeland Stability Conditions (III)

### **FEBRUARY 10 (FRIDAY)** [also as part of Mathematics Department Colloquium]

16:00 – 17:00LSB 222Jongil PARK (Seoul National University, Korea)Symplectic fillings and rational blowdowns

### FEBRUARY 13 (MONDAY)

09:30 - 10:00	5B Lobby	TEA RECEPTION
10:00 - 12:00	AB1 502a	<b>Hiraku NAKAJIMA</b> (RIMS, Japan) <i>Towards a mathematical definition of Coulomb branches of</i> <i>3-dimensional N=4 SUSY gauge theories (I)</i>
14:00 - 14:30	5B Lobby	TEA RECEPTION
14:30 - 15:30	AB1 501a	<b>Amihay HANANY</b> (Imperial College, UK) Coulomb branches in physics
18:00		MIST BANQUET

### **FEBRUARY 14 (TUESDAY)**

14:00 – 16:00	AB1 501a	<b>Hiraku NAKAJIMA</b> (RIMS, Japan)
		Towards a mathematical definition of Coulomb branches of
		3-dimensional N=4 SUSY gauge theories (II)

16:00 – 16:30 5B Lobby TEA RECEPTION

#### ~ All are welcome ~

This event is partially supported by "Programme on Geometric Analysis".