# Berkeley-Tokyo Winter School "Geometry, Topology and Representation Theory" February 8 - February 19, 2016

## Venue: Common Room 1015, Evans Hall (except on February 10) Department of Mathematics, University of California, Berkeley

### Program

#### Time schedule

First week

	10:00 - 11:30	13:30 - 15:00	16:00 - 17:30
Monday, Feb. 8	Shende I	Kawazumi I	
Tuesday, Feb. 9	Kawazumi II	Shende II	Student
Wednesday, Feb. 10	Teichner I	Teichner II	seminar
Thursday, Feb. 11	Furuta I	Furuta II	
Friday, Feb. 12	Hutchings I	Hutchings II	

The venue for Lectures of February 10 is Moffitt 106.

#### Second week

	10:00 - 11:30	13:30 - 15:00	16:00 - 17:30
Monday, Feb. 15	Wolf I	Kobayashi I	Student
Tuesday, Feb. 16	Wolf II	Kobayashi II	seminar
Wednesday, Feb. 17	Futaki I	Free afternoon	
Thursday, Feb. 18	Futaki II	Student seminar	
Friday, Feb. 19	Student seminar		

#### Titles of lectures

Mikio Furuta (The University of Tokyo) An introduction to Seiberg-Witten equations

Akito Futaki (The University of Tokyo) Introduction to K-stability in Kähler geometry

Michael Hutchings (University of California, Berkeley) Symplectic embeddings of four-dimensional toric domains

Nariya Kawazumi (The University of Tokyo) Mapping class groups and the Johnson homomorphisms

Toshiyuki Kobayashi (The University of Tokyo) Branching problems in representation theory of reductive Lie groups

Vivek Shende (University of California, Berkeley) Cluster varieties from Legendrian knots

Peter Teichner (University of California, Berkeley) K-theory via super symmetric field theories

Joseph A. Wolf (University of California, Berkeley) Representations of nilpotent Lie groups

Organizing committee Nicolai Reshetikhin, Vivek Shende, Akishi Kato, Toshitake Kohno