

Conference on
“Geometric Correspondences of Gauge Theories”

September 3 – 7, 2018

organized by

**Giulio Bonelli (SISSA, Trieste), Ugo Bruzzo (SISSA, Trieste),
Harald Grosse (U Vienna), Jacopo Stoppa (SISSA, Trieste),
Alessandro Tanzini (SISSA, Trieste), Maxim Zabzine (U Uppsala)**

• **Monday, September 3, 2018**

09:00 – 09:30 **Registration**

09:30 – 10:30 **Yukinobu Toda**

Gopakumar-Vafa invariants for Calabi-Yau 3-folds and 4-folds, I

10:30 – 11:00 *Coffee / Tea Break*

11:00 – 12:00 **Masahito Yamazaki**

Integrability from 4d Chern-Simons Theory, I

12:00 – 13:30 *Lunch Break*

13:30 – 14:30 **Fabrizio Nieri**

Localization on compact spaces, q -W algebras and modularity

14:30 – 15:00 *Coffee / Tea Break*

15:00 – 16:00 **Martijn Kool**

New calculations in Vafa-Witten theory

16:00 – 17:00 **Can Kozcaz (tbc)**

Refined topological branes

• **Tuesday, September 4, 2018**

09:30 – 10:30 **Yukinobu Toda**

Gopakumar-Vafa invariants for Calabi-Yau 3-folds and 4-folds, II

10:30 – 11:00 *Coffee / Tea Break*

11:00 – 12:00 **Richard Thomas**

(Refined) Vafa-Witten invariants for projective surfaces, I

12:00 – 13:30 *Lunch Break*

13:30 – 14:30 **Masahito Yamazaki**

Integrability from 4d Chern-Simons Theory, II

14:30 – 15:00 *Coffee / Tea Break*

15:00 – 16:00 **Tamas Hausel**
Mirror symmetry with branes by equivariant Verlinde formulae

16:00 – 17:00 **Guglielmo Lockhart** (tbc)
Universal features of 6d BPS strings

• **Wednesday, September 5, 2018**

09:30 – 10:30 **Yukinobu Toda**
Gopakumar-Vafa invariants for Calabi-Yau 3-folds and 4-folds, III

10:30 – 11:00 *Coffee / Tea Break*

11:00 – 12:00 **Richard Thomas**
(Refined) Vafa-Witten invariants for projective surfaces, II

12:00 – 13:30 *Lunch Break*

13:30 – 14:30 **Jan Manschot**
Supersymmetric gauge theories and (iterated) integrals of modular forms

14:30 – 15:00 *Coffee / Tea Break*

15:00 – 16:00 **Shlomo Razamat**
Compactification of minimal 6d SCFTs on Riemann surfaces

16:00 – 17:00 **Nicolo' Piazzalunga**
Magnificent Four with Color

• **Thursday, September 6, 2018**

09:30 – 10:30 **Yukinobu Toda**
Gopakumar-Vafa invariants for Calabi-Yau 3-folds and 4-folds, IV

10:30 – 11:00 *Coffee / Tea Break*

11:00 – 12:00 **Richard Thomas**
(Refined) Vafa-Witten invariants for projective surfaces, III

12:00 – 13:30 *Lunch Break*

13:30 – 14:30 **Kazunobu Maruyoshi**
Supersymmetry enhancing RG flow and Argyres-Douglas theories

14:30 – 15:00 *Coffee / Tea Break*

15:00 – 16:00 **Richard Thomas**
(Refined) Vafa-Witten invariants for projective surfaces, IV

16:00 – 17:00 **Antonio Sciarappa**
Wilson loops, Wilson surfaces and S-duality

• **Friday, September 7, 2018**

on this day we may schedule additional talks later on

The talks will end at 17:00 on time. All talks take place at ESI, Schrödinger Lecture Hall!