

# 2023 Simons Physics Summer Workshop - WEEK 3

**Events for:  
Monday, July 10th - Friday, July 14th**

## Monday, July 10th

9:00am **Physics Summer Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

10:00am **Physics Summer Workshop: Shlomo Razamat - SCGP 102**

**Speaker:** Shlomo Razamat (Year Represented: 2017)

**Title:** Generalized lattices from 6d SCFTs

**Abstract:** TBA

10:30am **Physics Summer Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

12:00pm **Physics Summer Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

3:30pm **Physics Summer Workshop: Tea - SCGP Cafe**

**Title:** Tea

## Tuesday, July 11th

9:00am **Physics Summer Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

10:00am **Physics Summer Workshop: Andrew Neitzke - SCGP 102**

**Speaker:** Andrew Neitzke (Year Represented: 2007)

**Title:** Line defects and skein algebras at roots of unity

**Abstract:** TBA

10:30am **Physics Summer Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

12:00pm **Physics Summer Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

4:00pm **Physics Summer Workshop Tea - SCGP Lobby**

**Title:** Tea

5:00pm **- Auditorium 103**

**Title:** Summer Concert Series: Performance by Long Island Chamber Music Group

### Wednesday, July 12th

9:00am **Physics Summer Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

11:00am **Physics Summer Workshop: Beach Talk - Juan Maldacena - Smith Point County Park, 1 William Floyd Pkwy, Shirley, NY 11967, USA**

**Speaker:** Juan Maldacena (Year Represented: 2013)

**Title:** Scaling similarities in large N quantum mechanical systems.

**Abstract:** We describe supersymmetric SYK models which display a scaling similarity at low temperatures, rather than the usual conformal behavior. We discuss the large N equations. We also present a picture for the physics of the model which suggest that the relevant low energy degrees of freedom are almost free.

### Thursday, July 13th

9:00am **Physics Summer Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

10:00am **Physics Summer Workshop: Albrecht Klemm - SCGP 102**

**Speaker:** Albrecht Klemm (Year Represented: 2005)

**Title:** Non-perturbative topological string on compact Calabi-Yau 3 folds

**Abstract:** New boundary conditions using D4-D2-D0 brane BPS indices and Wall crossing formulas relating the latter to Donaldson-Thomas, Pandharipande-Thomas and Gopakumar Vafa invariants as well study of these invariants on non-commutative Calabi-Yau resolutions allow to solve the topological string to very high genus. These high order perturbative results are used to confirm and extend analytic results based on resurgence techniques and in particular a transseries solution of the holomorphic anomaly equations.

10:30am **Physics Summer Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

12:00pm **Physics Summer Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

3:30pm **Physics Summer Workshop: Tea - SCGP Cafe**

**Title:** Tea

6:00pm **Physics Summer Workshop: Banquet at Avalon - Avalon Nature Preserve, Harbor Rd, Stony Brook, NY 11790, USA**

**Title:** Banquet Dinner at Avalon

<b>Friday, July 14th</b>
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9:00am **Physics Summer Workshop: Breakfast - SCGP Cafe**

**Title:** Breakfast

10:00am **Physics Summer Workshop: Miguel Montero - SCGP 102**

**Speaker:** Miguel Montero (Year Represented: 2021)

**Title:** Comments on scale-separated vacua in holography

**Abstract:** TBA

10:30am **Physics Summer Workshop: Coffee Break - SCGP Cafe**

**Title:** Coffee Break

12:00pm **Physics Summer Workshop: Lunch - SCGP Cafe**

**Title:** Lunch

3:30pm **Physics Summer Workshop: Tea - SCGP Cafe**

**Title:** Tea