

# Roundtable for Math and Science Summer Programs

## Schedule

All daytime plenary sessions take place in Room 102 in the Simons Center (first floor).  
Breakfast, lunch, and coffee/snack breaks take place in the Simons Center Cafe (second floor).  
Some of the roundtable sessions take place in Room 313 of the Simons Center (third floor).  
All evening activities take place in Room S-240 of the Math Tower (adjacent to Simons Center).

### Friday, February 22

- 8:00 - 9:00** Registration and breakfast
- 9:00 - 9:15** Opening remarks by the organizers
- 9:15 - 10:15** **PROGRAM INTRODUCTIONS: US summer math programs**
- Ross Mathematics Program
  - Hampshire College Summer Studies in Mathematics (HCSSiM)
  - Program in Mathematics for Young Scientists (PROMYS)
  - Mathworks Honors Summer Mathcamp (HSMC)
  - Canada/USA Mathcamp (Mathcamp)
  - Stanford University Mathematics Camp (SUMaC)
  - All Girls / All Math (AGAM)
  - MathPath
  - Bridge to Enter Advanced Mathematics (BEAM)
  - serious Mathematics Infused with Levity (MathILy)
  - Prove It! Math Academy
- 10:15 - 10:45** **TALK: Summer Math and Science Programs in the US: A Historical Overview**  
(Jim Fowler, Ross Program)
- 10:45 - 11:15** Coffee, tea & snacks
- 11:15 - 11:45** **TALK: Math and Science Programs in Russia: Few Examples**  
(Alexander Kirillov, SigmaCamp; Alexander Abanov, Krasnoyarsk Summer School)
- 11:45 - 12:45** **PROGRAM INTRODUCTIONS: US science programs; Russian-language programs; other participants**
- Summer Science Program (SSP)
  - Institute for STEM education, Stony Brook University (I-STEM)
  - Penn Summer Science Academies: Experimental Physics (PSSA)
  - Program for Research in Mathematics, Engineering and Science for High School Students (PRIMES)
  - SigmaCamp
  
  - Krasnoyarsk Summer School (KLSH)
  - Summer Informatics School (SIS)
  - School of Molecular and Theoretical Biology (SMTB)
  - Math Family Workshop
  - International Smart Camp Marabou

## Friday, cont.

- 12:45 - 2:00 Lunch
- 2:00 - 3:00 **PANEL: Organizational Structure, Leadership, and Transition**  
(Mathcamp, PSSA, SigmaCamp, SUMaC)
- 3:10 - 4:10 **ROUNDTABLES:**
- **On organizational structure, leadership, and transition (Room 102)**  
*Continuing the conversation from the panel*
  - **Special academic events and activities (Cafe)**  
*Ideas and/or formats worth sharing and emulating*
  - **Trouble you run into with students and how you handle it (Room 313)**  
*E.g. cheating, disciplinary issues, mental health issues, etc.*
- 4:10 - 4:30 Coffee, tea & snack
- 4:30 - 5:30 **ROUNDTABLES:**
- **Math programs: how we do admissions (Room 102)**  
*What do we look for? How do we design our admissions test and application?*
  - **Science programs: curriculum-specific discussion (Cafe)**  
*What do we teach and how? Challenges/ benefits of summer science programs.*
  - **Boring-but-necessary subjects (Room 313)**  
*Visas, insurance, legal compliance, etc.*
- 5:30 - 7:30 Pizza & beer dinner (Math Tower, Room 240)
- 7:30 - 10:00 Reception and (optional) Trivia Night (Math Tower, Room 240)  
*Lots of time for informal conversation, too.*

## Saturday, February 23

- 8:00 - 9:00 Breakfast
- 9:00 - 9:30 **TALK: The Epsilon Fund and Other Grants** (Joel Spencer, AMS Epsilon Fund)
- 9:30 - 10:30 **PANEL: Funding and Fundraising** (BEAM, HSMC, Mathcamp, SSP)
- 10:30 - 11:00 Coffee, tea & snacks
- 11:00 - 12:00 **ROUNDTABLES:**
- **Staff recruitment, training, and retention (Room 102)**  
*What we look for and train for in our staff; roles of faculty vs counselors*
  - **Supporting girls in summer STEM programs (Cafe)**  
*How do we recruit girls and ensure that they thrive*
  - **More on funding and fundraising (Room 313)**  
*Continuing the conversation from the panel*
- 12:00 - 1:30 Lunch
- 1:30 - 2:30 **TALK: Recruiting and Supporting Students from Marginalized Communities**  
(Dan Zaharopol and Jacob Castaneda, BEAM)

## Saturday, cont.

- 2:40 – 3:40**                    **ROUNDTABLES:**
- **Research with high school students (Room 102)**  
*Including presentations by PRIMES and SSP*
  - **More on supporting students from marginalized communities (Cafe)**  
*Continuing the conversation from the talk*
  - **Public relations, advertising, and online presence (Room 313)**
- 3:40 - 4:00**                    Coffee, tea, and snacks
- 4:00 - 5:30**                    **DISCUSSION: Ideas for Continued Cross-Program Collaboration**
- Introduction and whole-group brainstorming session
  - Break into small groups for discussion
  - Reconvene to report back to the entire group
- 5:30 - 7:00**                    Dinner on your own
- 7:00 - 10:00**                  Wine, cheese, and (optional) Show & Tell (Math Tower, Room 240)  
*Lots of time for informal conversation, too.*

## Sunday, February 24

- 8:00 - 9:00**                    Breakfast
- 9:00 - 9:30**                    **TALK: Creating an Ecosystem**  
(Demi Dubois, Li-Mei Lim, and Glenn Stevens, PROMYS)
- 9:30 - 10:00**                  **TALK: College Admissions** (Chris Peterson, MIT Admissions)
- 10:10 - 11:10**                  **ROUNDTABLES:**
- (Topic to be suggested by participants)
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  - Interaction with students during the academic year (Room 313)
- 11:10 -11:30**                  Coffee, tea, and snacks
- 11.30 - 12:30**                  **DISCUSSION: Plans for Continued Cross-Program Collaboration**  
We will circulate a draft proposal based on Saturday's conversations.
- 12:30 - 12:40**                  Closing remarks by the organizers
- 12:40 - 1:00**                    Informal mingling and goodbyes  
Coffee, tea, and grab-and-go sandwiches available.

The next two LIRR trains to New York are at 1:22 and 2:52 pm.

We will help people get to the 1:22 train, either by foot (< 10 minutes) or by car if necessary.