Caltech
Student-Faculty Programs

Mathematics

Session O

Room: 109 Jorgensen

1:00 - 1:20 PM	***Toby J. Saunders-A'Court*** *The Associates SURF Fellow*	Distributional exploration bonuses	Sergei G. Gukov *John D. MacArthur Professor of Theoretical Physics and Mathematics* Muhammad A. Shehper *Research Scientist in Mathematics*
1:20 - 1:40 PM	***John G. Mattson*** *Carl F. Braun SURF Fellow*	Multivariable matrix monotone functions	Otte Heinaevaara *Scott Russell Johnson Postdoctoral Scholar Teaching Fellow in Mathematics*
1:40 - 2:00 PM	***Jun Ikeda*** *Dale and Suzanne Burger SURF Fellow*	Generalized tube algebras for locally presented quasi-local algebras	Corey Jones *Assistant Professor of Mathematics, North Carolina State University* Matilde Marcolli *Robert F. Christy Professor of Mathematics and Computing and Mathematical Sciences*
2:00 - 2:20 PM	***Samuel P. Goodman*** *Nilo A. and Phylis F. Niccolai SURF Fellow*	Unitary Eichler basis theorems	Elena Mantovan *Taussky-Todd-Lonergan Professor of Mathematics*
2:20 - 2:40 PM	***Grace H. To*** *Joanna Wall Muir SURF Fellow*	Analyzing the asymptotic behavior of the integrality gap for the Goemans-Linial SDP relaxation of the Uniform Sparsest Cut	Seung-Yeon Ryoo *Olga Taussky and John Todd Postdoctoral Scholar Teaching Fellow in Mathematics*
2:40 - 3:00 PM	***Henry Gustafson*** *Carl F. Braun SURF Fellow*	Algebraic models of Merge and phases for tensor networks	Matilde Marcolli *Robert F. Christy Professor of Mathematics and Computing and Mathematical Sciences*
3:00 - 3:10 PM	***BREAK***		
3:10 - 3:30 PM	***Colin H. La***	Cutoff window for the Gibbs sampler process	Lingfu Zhang *Assistant Professor of Mathematics*
3:30 - 3:50 PM	***Piash Mondol***	Upper bounds on the optimal pebbling number of graphs with high minimum degree	Matthew M. Gherman *Hearst Postdoctoral Scholar Teaching Fellow in Mathematics*
3:50 - 4:10 PM	***Vivian Loh*** *Samuel P. and Frances Krown SURF Fellow*	The negligible ideals of some symmetric groups, and its application to the Krull dimension of the integral negligible quotient of any finite group	Matthew M. Gherman *Hearst Postdoctoral Scholar Teaching Fellow in Mathematics*