<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 - 10:20 AM</td>
<td>Michael N. Manta</td>
<td>Repeated Patterns in Arbitrary Colorings</td>
<td>David G. Conlon, Professor of Mathematics</td>
</tr>
<tr>
<td>10:20 - 10:40 AM</td>
<td>Andrei C. Staicu</td>
<td>Counting n-Arcs in Projective Planes Over Finite Fields</td>
<td>Ronno Das, Postdoctoral Researcher in Mathematics, University of Copenhagen, Elena Mantovan, Professor of Mathematics</td>
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<tr>
<td>10:40 - 11:00 AM</td>
<td>Necef A. Kavrut</td>
<td>Class Number Sums and the Prime Geodesic Theorem</td>
<td>Alexander Dunn, Olga Taussky and John Todd, Instructor in Mathematics</td>
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<tr>
<td>11:00 - 11:20 AM</td>
<td>Kenji I. Nakagawa</td>
<td>Class Numbers of Real Cyclotomic Fields, Principal Ideals, and Regular Primes</td>
<td>Alexander Dunn, Olga Taussky and John Todd, Instructor in Mathematics</td>
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<tr>
<td>11:20 - 11:40 AM</td>
<td>Ali Cataltepe</td>
<td>Characterizing the Continuum-limit Behavior of Connected Components in the Barely-subcritical Erdos-Renyi Random Graph</td>
<td>Thomas M. Hutchcroft, Professor of Mathematics</td>
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<td>11:45 AM - 1:00 PM</td>
<td>LUNCH</td>
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<tr>
<td>1:00 - 1:20 PM</td>
<td>Justin I. Toyota</td>
<td>Stability for the Second Non-Trivial Neumann Eigenvalue of the Laplacian</td>
<td>Mikhail Karpukhin, Harry Bateman, Instructor in Mathematics</td>
</tr>
<tr>
<td>1:20 - 1:40 PM</td>
<td>Brian B. Yang</td>
<td>Special Families of Faithful Metacyclic and Dicyclic Galois Covers of the Projective Line</td>
<td>Elena Mantovan, Professor of Mathematics, Tran Trung, Graduate Student in Mathematics</td>
</tr>
<tr>
<td>1:40 - 2:00 PM</td>
<td>Melchor Herrera</td>
<td>Ordered Product Factorizations in the Tropical Vertex Group</td>
<td>Tony Yue Yu, Professor of Mathematics, Thorgal Hinault, Graduate Student in Mathematics</td>
</tr>
<tr>
<td>2:00 - 2:20 PM</td>
<td>Miles V. Cua</td>
<td>Morse Index of Infinite Families of Minimal Surfaces in the 3-torus</td>
<td>Antoine Song, Assistant Professor of Mathematics</td>
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<td>2:20 - 2:30 PM</td>
<td>BREAK</td>
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</tbody>
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2:30 - 2:50 PM  
**Noah D. Ortiz**  
*Carl F. Braun SURF Fellow*  
Unifying Proofs of Definable Dichotomies  
Zoltan Vidnyanszky  
*Tau ssky-Todd Instructor of Mathematics*  
Alexander S. Kechris  
*Professor of Mathematics*

2:50 - 3:10 PM  
**Stephanie Y. Chen**  
*Marcella Bonsall SURF Fellow*  
Extension of Shannon Entropy to Finite Categories  
Juan Pablo Vigneaux Ariztia  
*Olga Taussky and John Todd Instructor in Mathematics*

3:10 - 3:30 PM  
**Eric Paul**  
*Dr. Judith Goodstein SURF Fellow*  
Information Theoretic Trade-offs in Creating Disentangled Representations  
Juan Pablo Vigneaux Ariztia  
*Olga Taussky and John Todd Instructor in Mathematics*

3:30 - 3:50 PM  
**Elia P. Gorokhovsky**  
*Samuel P. and Frances Krown SURF Fellow*  
Universality Theorems for Random Groups  
Melanie Wood  
*Professor of Mathematics, Harvard University*  
Omer Tamuz  
*Professor of Economics and Mathematics*

3:50 – 4:10 PM  
**Christopher D. Cox**  
Higher von Mangoldt Functions and F1-geometry  
Matilde Marcolli  
*Robert F. Christy Professor of Mathematics and Computing and Mathematical Sciences*  
Elena Mantovan  
*Professor of Mathematics*