# Schedule of Contributed Paper Presentations
# All talks in the Smith-Hudson Building

| | Room 134 | Room 135 | Room 138 |
|---|---|---|---|
| 9:30 - 9:45 | Eric Daniel<br>**The Use of Representation Theory in Particle Physics: A Historical Interpretation** | Mauricio Rivas<br>**Art and Mathematics** | TX Project NExT Activities |
| 9:50 - 10:05 | Adam Drake<br>**Primordial Black Holes and Structure Formation** | Melissa Mauck<br>**Fingerprints: Are They Your Own?** | TX Project NExT Activities |
| 10:10 - 10:25 | John Snow<br>**Physics Animations with Constraints** | Dustin Jones<br>**An Anaylsis of Volumetrically Correct Cups** | TX Project NExT Activities |
| 10:30 - 10:45 | Juan Leon<br>**Behavior of Cancer Cells in a Mathematical Model** | Amy Potter<br>**Sabermetrics, or Which Astro is the Most Valuable Player** | TX Project NExT Activities |
| 1:30 - 1:45 | Rim Mohomad<br>**Graphs of Weighted Rational Functions** | Jennifer Anderson<br>**An Introduction to Quandles** | Phillip Couch<br>**Controlling the Flow of Traffic for School Zones or Other Specialty Traffic Areas** |
| 1:50 - 2:05 | Frank Mathis<br>**On Eigenvalues and Eigenvectors of the Laplacian of a Graph** | Candace Andrews<br>**Finite $C-$Groups** | Maria Ascencio<br>**Seedling Distribution and Mortality Model in Response to Fire and Torrential in Mediterranean Gorse Shrublands** |
| 2:10 - 2:25 | Mark Lane<br>**Magic Connections Between Squares and Graphs** | Shaun Williams<br>**$n-$Colorings of Twist Knots** | Michael Puente<br>**Vocal Tract Acoustics: Finding the Sound Pressure** |
| 2:30 - 2:45 | Adam Drake<br>**Enumerating Non-Graceful Graphs Using Rosa's Parity Condition** | Angela Brown<br>**A Short Introduction to Knot Theory and How it Applies to Celtic Knots** | Alexis O. Olson<br>**The Determination of Sound Pressure at the Lips From the Shape of a Vocal Tract** |
| 2:50 - 3:05 | Megan Gallant<br>**Semi-Transitive Orientations of Graphs** | Megan Jennings<br>**The Probability Behind Craps** | James Branch<br>**Curves and Surfaces: The Development of CAGD** |
| 3:10 - 3:25 | Jahn Veach<br>**Squaring the Square (and Other Related Shapes)** | Sarah Hall<br>**Revisiting Uncountable Infinity** | Rooholah Majdodin<br>**A Checkerboard Problem** |