

## Morning Short Talks

Time	11:10am	11:30am	11:50am
<b>Discrete Math</b> <i>McConnell 102</i>	<b>Alexandra Newlon</b> The Fibonacci Quilt Game	<b>Danielle Wiley</b> HS Sequences	<b>Anna Grim</b> Convergent Message Passing Algorithms for Probabilistic Inference in Graphical Models
<b>Biomathematics</b> <i>McConnell B15</i>	<b>Julie Fucarino</b> An Agent-Based Model of Pollen Competition in Arabidopsis thaliana	<b>Caira Anderson</b> Modeling Producer-Scrounger Behavior	<b>Scott Greenhalgh</b> A class of novel differential equation compartmental models of infectious disease transmission
<b>Algebra</b> <i>McConnell B05</i>	<b>GaYee Park</b> q-analog of factorization problems	<b>Freda Li</b> Quadratic and Hermitian Forms	
<b>Geometry/Topology</b> <i>McConnell 104</i>	<b>Dawit Wachelo</b> Graph Quantum Mechanics and Von Neumann Entropy	<b>Sarah Glidden</b> Automated Identification of Landslides	<b>Andrew Tawfeek</b> Developments on Characterizing Equivalent Discrete Morse Functions on Graphs

Note for speakers: All rooms are equipped with projectors, connected to computers and with laptop connectors. All rooms also have blackboards and/or whiteboards.

## Afternoon Short Talks

Time	2:20	2:40	3:00
<b>Dynamical Systems</b>	<b>Nitzan Hirshberg</b>	<b>Talia Blum</b>	
<i>McConnell 102</i>	Approximating the Many Body Problem Through Refining Couple Cluster Theory	Unlikely Intersections and Portraits of Dynamical Semigroups	
<b>Geometry/Topology</b>	<b>Patrick Dragon</b>	<b>Jessica Ratray</b>	<b>Olivia del Guercio</b>
<i>McConnell B15</i>	What percentage of triangles are acute?	Research in Knot Theory: Unknotting and Region Crossing Change	An Invariant of $p$ -colorable Knots
<b>Algebra/Number Theory</b>	<b>Garcia Sun</b>	<b>Tori Day</b>	<b>Tayler Fernandes Nunez</b>
<i>McConnell 104</i>	Matchings and Springer fibers	Modular Deformation Problems	Towards a Database of Belyi Maps
<b>Combinatorics</b>	<b>Lydia Ahlstrom</b>	<b>Asya Vitko</b>	<b>Lisa Cenek &amp; Kathryn Beck</b>
<i>McConnell B05</i>	A Mathematical Investigation of Sol LeWitt's Wall Drawing 413	Counting Distinguishing Colorings of Cycles	Chorded Pancyclic Properties in Claw-Free Graphs

Note for speakers: All rooms are equipped with projectors, connected to computers and with laptop connectors. All rooms also have blackboards and/or whiteboards.