

Schedule of Contributed Paper Presentations

All talks in the Lee Drain Building

	Room 207 Moderator: Melinda Holt	Room 220 Moderator: Debbie Koslover	Room 213 Moderator: Ananda Manage	Room 201
9:00 - 9:15	Ken Smith The LURE grant: past, present, and future	Nick Duplan The Stationary Distribution of a Bonus-Malus System	Laura McCormick Square Products of Punctured Sequences of Factorials	TX NExT Events
9:20 - 9:35	Karleigh Frederick, Samantha Hilker, and Megan Savage Constructing Cube Knots	Kevin Oakley Efficient in My Work	Rebecca Garcia The Mathematical Magic of Benjamin Franklin	TX NExT Events
9:40 - 9:55	Scott Clark, Lauren Mondin, Courtney Weber, and Jessica Winborn Interval Estimates for Predictive Values in Disease Testing	Cynthia Willis Jumping Off the Financial Skyscraper: Exploring Absorbing Markov Chains	Brian Beavers Going Uphill Both Ways: How Math Just Keeps Getting Easier AND Harder	TX NExT Events
	Room 207 Moderator: Ken Smith	Room 220 Moderator: John Alford	Room 208 Moderator: Rebecca Garcia	Room 213 Moderator: Yuliya Babenko
2:45 - 3:00	Susan Abernathy Knots and a Special Type of Chord Diagram	Curtis Balusek, Casey Hartnett, and Kristen Pelo Mathematical Models for Invasive Aquatic Vegetation	Alexander Diaz The Linear Independence of Algebraic Curvature Tensors	Nicole Williams Computerized Tomography and Some Mathematics Behind It
3:05 - 3:20	Heather Pierce An Introduction to the Jones Polynomial	John Alford Mathematical Models of Dispersal in Ecology	Angela Brown An Introduction to Finite Geometries and Semifields	Christina Nieuwoudt Some identities for $\sin x$ which resulted from medical imaging
3:25 - 3:40	Duy Nguyen Energy of Graphs and Matrices	Antonio Lopez Mathematical Aspects of Photonic Crystals	Leah Childers Simply Intersecting Pairs in the Mapping Class Group	Ashli Lawson Applications of Advanced Calculus to Blood Flow Analysis
3:45 - 4:00	Suzi Gearhart and John Owen The Relative Gain Array of Cayley Graphs	Marsida Lisi Mathematical Modeling of the BMP4 and FGF Signaling Pathways during Neural and Epidermal Development in <i>Xenopus</i>	Jillian Hamilton \mathbb{G}-Planar Groups	Charles Nguyen A Review of Human Adiposity and Climate Change
4:05 - 4:20	Sarah Spielvogel Causality: Understanding the world via statistics, algebra and graph theory	Tia Pilaroscia Fungal Population Dynamics along Buffalo Bayou	Luiz Faria Annuli Bounds for the Roots of Sparse Polynomials	Jessica Nguyen The Probability of Rocking the Ehrenfest Urn Model