

Texas Women in Mathematics Symposium
November 5, 2016

8:30-9:00	Registration, breakfast, coffee	RLM Lobby
9:00-9:20	Welcome/Opening Remarks	RLM 4.102
9:30-11:00	Knot Theory Lisa Piccirillo , <i>On the Akbulut-Kirby Conjecture</i> Jacqueline Jensen-Vallin , <i>Gilbreath Knots</i> Brandy Doleshal , <i>Primitive/Seifert Knots</i>	Room A RLM 5.114
	Mathematical Biology Elizabeth Stephenson , <i>A Mathematical Model of Skeletal Muscle Regeneration</i> Nida Obatake , <i>Rat GPS – Drawing Place Field Diagrams of Neural Codes Using Toric Ideals</i> Simona Hodis , <i>Mind the gap: impact of arterial wall thickness on assessment of arterial stiffness.</i>	Room B RLM 5.116
	Numerical methods/Modeling Abigail Miller , <i>Mathematical Modeling of the ANWR ecosystem</i> Daewa Kim , <i>A kinetic theory approach to pedestrian motion</i> Sara Shirinkam , <i>Numerical Algebraic Geometry for identifying the number of components in Gaussian Mixture Models</i>	Room C RLM 5.118
11:00-1:00	Lunch and breakout sessions	RLM 4.102
1:00-2:00	Keynote: Shelly Harvey , <i>Using gropes to define a non-discrete metric on the knot concordance group</i>	RLM 4.102
2:00-2:30	Coffee break	RLM Lobby
2:30-4:00	Algebra and Combinatorics Cornelia Mihaila , <i>The shape of capillarity droplets in a container</i> Jen Berg , <i>Integral solutions of polynomial equations and reciprocity laws</i> Daniela Ferrero , <i>Power domination and zero forcing applied to electrical power networks.</i>	Room A RLM 5.114
	Differential Equations/Physics Daria Kurzanova , <i>A robust preconditioner for high contrast problems</i> Sat Byul Seo , <i>A Finite Difference Method of Second-Order Heat Diffusion Equations with Discontinuous Coefficients in 3-D</i> Pritha Chakraborty , <i>On a conjecture of Korenblum in Bergman Spaces</i>	Room B RLM 5.116
	Numerical Methods/Modeling II Ummugul Bulut , <i>Derivation of the Biased and Correlated Random Walk Models in One and Two Dimensions</i> Fatma Terzioglu , <i>Image Reconstruction from Compton Camera Data</i> Xuexia Wang , <i>Statistical Methods in Genetic Association Studies</i>	Room C RLM 5.118
4:00-4:30	Closing Remarks, Survey	RLM 4.102
5:00-7:00	Wrap-up and social hour	Clay Pit