

Schedule of 2025 Texas Differential Equation Conference
University of Houston-Downtown

Saturday, March 8, 2025 (All talks in STB Fondren Commons Rooms A & B)

Time	Speaker	Title
9:00–9:10	Akif Uzman	Welcome !!!
9:10–9:30	Giles Auchmuty	Convergence of Eigenfunction expansions for Poisson type equations
9:35–9:55	An Vu	A semi-implicit projection scheme for multiphase incompressible flows with thermal convection
10:00–10:20	William “Kyle” Barker	Traveling waves for nonlocal Fisher-KPP equations with diffusive delay
10:25–10:45	Coffee break	
10:45–11:05	Dambaru Bhatta	Weakly nonlinear investigation of Soret and Lewis number effects on a thermos-solutal convective flow in porous media
11:10–11:30	Fengxin Chen	Nonexistence of time almost-periodic solutions of Nonlocal Allen-Cahn Equations
11:35–11:55	Goong Chen	Analysis and Identification of Vibration Spectra for a Horse through and after Its Collision with a Solid Wall
12:00–12:20	Manki Cho	Utilizing Steklov Expansion Techniques for Analyzing Physical Capacitances in Electrostatics
12:30–13:45	Lunch break	
13:50–14:10	Aliakbar Montazer Haghighi [†] Dimitar P. Mishev	A Transient ^[X] / Transient ^(k,K) /1 Queue with Reneging and Setup Time for Service
14:15–14:35	Luan Thach Hoang	Anisotropic Forchheimer flows in porous media
14:40–15:00	Yongming Li	Asymptotic stability of solitary waves for the 1D cubic NLS under even perturbations
15:05–15:25	Erwin Suazo [†] Jose Escorcía	On Blow-Up and Explicit Soliton Solutions for Coupled Variable Coefficient Nonlinear Schrödinger Equations
15:30–15:50	Coffee break	
15:50–16:10	Ray Treinen &	Symmetric and asymmetric floating drops
16:15–16:35	John Villavert	On singular and degenerate elliptic equations arising from sharp geometric inequalities
16:40–17:00	Yuetong Wu	AI Technology and Modal Analysis in Motion Imitation of Dinosaurs

[†] Speaker.