

## TexAMP 2016: Contributed Talks

### Session 1 in HBH 227

15:15-15:45

Rajinder Mavi, Michigan State University  
[Anderson localization in a disordered polaron](#)

15:50-16:20

Vitali Gerbuz, Rice University  
[Transport exponents for initial states with large support](#)

16:25-16:55

Valmir Bucaj, Rice University  
[On the Kunz-Souillard approach to localization for the discrete one dimensional generalized Anderson model](#)

17:00-17:30

Tom VandenBoom, Rice University  
[Reflectionless Jacobi operators from a dynamical perspective](#)

17:35-18:05

Zhenghe Zhang, Rice University  
[Uniform positivity of the Lyapunov exponent for monotonic potentials generated by the doubling map](#)

## TexAMP 2016: Contributed Talks

### Session 2 in HBH 423

15:15-15:45

Matthew Fleeman, Baylor University  
[Approximating  \$\bar{z}\$  in the Bergman space and Bergman analytic content](#)

15:50-16:20

Maxim Gilula, Michigan State University  
[The Newton polyhedron and multilinear oscillatory integral estimates](#)

16:25-16:55

Lechao Xiao, University of Pennsylvania  
[Some sharp  \$L^\infty \times L^\infty \times L^\infty\$  estimates](#)

17:00-17:30

Kai Yang, University of Iowa  
[Symplectic non-squeezing of mass subcritical Hartree equations](#)

17:35-18:05

Brian Simanek, Baylor University  
[Universality results for polynomial reproducing kernels](#)

## TexAMP 2016: Contributed Talks

### Session 3 in HBH 427

15:15-15:45

Pedro Morales-Almazan, UT Austin

Zeta function for perturbed surfaces of revolution

15:50-16:20

David Blecher, University of Houston

Quantum cardinals

16:25-16:55

Jing Tian, University of South Florida

Chaotic vibration of two-dimensional non-strictly hyperbolic equation

17:00-17:30

Vladimir Dragovic, UT Dallas

Discriminant separability and integrability

17:35-18:05

Pengfei Gu, UT Rio Grande Valley

Lie symmetry to second-order nonlinear differential equations and its first integrals

18:10-18:40

Tracy Weyand, Baylor University

The relation between spectral Zeta functions of discrete and quantum graphs

## TexAMP 2016: Contributed Talks

### Session 4 in HBH 453

15:15-15:45

Andras Balogh, UT Rio Grande Valley

A Fourth Order Runge-Kutta Method for the Higgs Boson Equation in de Sitter Spacetime Using Graphics Processing Unit

15:50-16:20

Baofeng Feng, UT Rio Grande Valley

The complex short pulse equation and the complex sine-Gordon equation

16:25-16:55

Jasang Yoon, UT Rio Grande Valley

Toral and spherical Aluthge transforms of operators

17:00-17:30

Rong Yin, UT Rio Grande Valley

The distribution of solution of a kind of free boundary problem

17:35-18:05

Junfang Zhao, UT Rio Grande Valley

The existence of positive solutions of a kind of singular fractional differential equation with integral boundary conditions

18:10-18:40

Tam Do, Rice University

Finite time blow-up and global regularity for model equations in fluids