

**CENTER FOR APPROXIMATION THEORY ANNUAL SYMPOSIUM**

**Department of Mathematics  
Texas A&M University  
Friday, 25th April and Saturday, 26th April, 1997**

*VENUE: 457 BLOCKER*

**Programme**

**Friday, 25th April**

SESSION I – Chair: Paul Nelson

- 1:00 p.m: A. V. Bobylev, Texas Tech University and Keldysh Institute of Applied Mathematics (Moscow)  
*Approximation of the Boltzmann equation by discrete velocity models*
- 1:40 p.m: D. Allen, Texas A&M University  
*Closed linear one cell functional methods for the two dimensional transport equation*
- 2:20 p.m: I. Carron, Texas A&M University and Amarillo National Resource Center for Plutonium  
*Use of wavelets in neutron transport theory*
- Coffee Break (Room 627)*

SESSION II – Chair: Itshak Borosh

- 3:30 p.m: M. Maesumi, Lamar University  
*Hölder regularity of wavelets*
- 4:10 p.m: J. Lian, Prairie View A&M University  
*On complex-valued wavelets*
- 4:50 p.m: J. Hanisch, Texas A&M University  
*Interpolatory spline-wavelets on a bounded interval*

**Saturday, 26th April**

8:30 a.m: Refreshments (Room 627)

SESSION III – Chair: Charles Chui

9:00 a.m: S. D. Riemenschneider, University of Alberta  
*Interpolatory subdivision and biorthogonal wavelets*

9:40 a.m: M. J. Lai, University of Georgia  
*Construction of bivariate compactly supported biorthogonal  
box spline wavelets with arbitrarily high regularities*

*Coffee Break (Room 627)*

10:30 a.m: J. Gilbert, University of Texas  
*Representations of operators by wavelets and wavelet packets*

11:10 a.m: J. Wang, Sam Houston State University  
*On two-scale factorization of the symbol of a scaling vector*

**Lunch Break**

SESSION IV – Chair: Joseph Ward

2:00 p.m: F. J. Narcowich, Texas A&M University  
*A framework for interpolation and approximation on a Riemannian manifold*

2:40 p.m: R. Goldman, Rice University  
*Rational Bezier*

*Tea Break (Room 627)*

3:40 p.m: H. Weimer, Rice University  
*Fast approximating triangulation of large scattered datasets*

4:20 p.m: W. W. Lau, Texas A&M University  
*Reflexive sheaves on  $P_{\mathbb{C}}^n$  and the dimension of spaces of multivariate  
splines*