

**CENTER FOR APPROXIMATION THEORY ANNUAL SYMPOSIUM**

**Department of Mathematics  
Texas A&M University  
Friday, 23rd April and Saturday, 24th April, 1999**

**Programme**

**Friday, 23rd April**  
*VENUE: 627 BLOCKER*

SESSION I – Chair: Francis Narcowich

- 1:00 p.m: A. Klappenecker, Texas A&M University  
*Speeding up wavelet packet transforms by quantum mechanical means*
- 1:40 p.m: V. Kamat, Texas A&M University  
*Bayesian multiresolution binary filter design*
- 2:20 p.m: J. Lian, Prairie View A&M University  
*Conics in NURBS*
- Coffee Break*
- 3:30 p.m: P. Smith, Windward Technologies  
*Computing the efficient frontier*
- 4:10 p.m: C. Peng, Texas A&M University  
*Design of rational wavelet filter banks*

**Saturday, 24th April**  
*VENUE: 120 BLOCKER*

8:00 a.m: Refreshments

SESSION II – Chair: Joseph Ward

8:30 a.m: X. Shi, Texas A&M University  
*Tight affine frames with real dilation*

9:10 a.m: J. Wang, Sam Houston State University  
*Interpolation wavelets in solving anisotropic diffusion equations*

9:50 a.m: L. Peng, Beijing University and TAMU  
*Analysis on octonions*

*Coffee Break*

11:00 a.m: T. Erdélyi, Texas A&M University  
*On the zeroes of polynomials with Littlewood-type coefficient constraints*

11:40 a.m: T. Le, Texas A&M University  
*The uniform norm of hyperinterpolation on the unit sphere in an arbitrary number of dimensions*

**Lunch Break**

SESSION III – Chair: Itshak Borosh

2:00 p.m: R. Goldman, Rice University  
*Blossoming with cancellation*

2:40 p.m: J. Warren, Rice University  
*Subdivision scheme for fluid flow*

*Tea Break*

3:45 p.m: M. Zhang, Rice University  
*Implicitization matrices in the style of Sylvester with the order of Bezout*

4:25 p.m: G. Morin, Rice University  
*Subdivision for analytic functions*