

**CENTER FOR APPROXIMATION THEORY ANNUAL SYMPOSIUM**

**Department of Mathematics  
Texas A&M University  
Friday, 28 April and Saturday, 29 April, 2000**

**Programme**

**Friday, 28 April**

*VENUE: 627 BLOCKER*

SESSION I – Chair: Joseph Ward

- 3:40 p.m: G. Morin, Rice University  
*Convergence of slope and discrete derivatives of control polygons for Bézier and Poisson curves*
- 4:20 p.m: P. Van Fleet, University of St. Thomas, Minnesota  
*Positive scaling vectors on the interval*

**Saturday, 29 April**

*VENUE: 120 BLOCKER*

8:00 a.m: *Refreshments (627 Blocker)*

SESSION II – Chair: Tamas Erdélyi

- 8:30 a.m: B. Bojanov, Texas A&M University  
*Cubature formulas for polyharmonic functions*
- 9:10 a.m: R. Lorentz, Texas A&M University  
*Total reduction and the factorization of multivariate polynomials*

*Break*

CAT CHEBYSHEV LECTURE – Chair: Francis Narcowich

- 10:15 - 11:15 a.m: Z. Ditzian, University of Alberta  
*A new measure of smoothness on the sphere*

**Lunch Break**

SESSION III – Chair: Donald Allen

- 1:15 p.m: H. Wendland, Texas A&M University

*Coupling fluid and structural models using radial basis functions*

1:55 p.m: E. Akleman, Texas A&M University  
*A new paradigm for changing topology during subdivision modeling*

*Break*

SESSION IV – Chair: David Larson

3:00 p.m: M. Maesumi, Lamar University  
*The smoothest six-coefficient multiresolution analysis*

3:40 p.m: M. Papadakis, University of Houston  
*Generalized frame multiresolution analysis of abstract Hilbert spaces*

4:20 p.m: E. Weber, Texas A&M University  
*Frames arising from unitary group representations*