

**Thursday, October 15, 2009**

**09:00** *M. Charina, C. Conti, K. Jetter, G. Zimmermann*  
Scalar Subdivision Schemes and Box Splines

**10:00** *C. Conti, L. Gemignani, L. Romani*  
From Approximating to  
Interpolatory Subdivision Schemes

**11:00** *Coffee Break*

**11:30** *C. Gérot, I. Ivriissimtzis, M. Sabin*  
Linear Combination of Subdivision Schemes

**12:30** *Closing*

**13:00** *Lunch*

### **Scientific Committee**

*C.. Conti, University of Florenee (Italy)*  
*N. Dyn, University of Tel Aviv (Israel)*  
*L. Gori, University of Rome “La Sapienza” (Italy)*  
*F. Pitolli, University of Rome “La Sapienza” (Italy)*

### **Organizing Committee**

*M.L. Lo Cascio, University of Rome “La Sapienza” (Italy)*  
*R. Morandi, University of Florence (Italy)*  
*L.. Sampoli, University of Siena (Italy)*  
*E. Santi, University of L’Aquila (Italy)*

*Research Workshop on*

# ***SUBDIVISION and REFINABILITY***

***PROGRAM***

### **Sponsored by:**

Dept. Me.Mo.Mat. - Univ. of Rome “La Sapienza”

G.N.C.S. – INdAM

Progetto di Ateneo - Univ. of Rome “La Sapienza”  
“Metodi Numerici e Probabilistici per  
l’Ingegneria”

---

**Pontignano (SI) - Italy**  
**October 12-15, 2009**

---

## Monday, October 12, 2009

- 08:45 *Opening*
- 09:00 *R. Delgado, P. Tafti, C. Rabut, M. Unser*  
Fractional Laplacians, Splines, Wavelets, and Fractal Processes
- 10:00 *L. Gori, F. Pitolli, E. Santi*  
Refinable Functions and Shape Preserving Properties
- 11:00 *Coffee Break*
- 11:30 *D. Burkhart, G. Umlauf*  
Optimizing Tetrahedral Subdivision Schemes for Finite-Element Applications
- 13:00 *Lunch*
- 15:00 *Working Groups*
- 20:00 *Dinner*

## Tuesday, October 13, 2009

- 09:00 *N. Dyn, V. Protasov, T. Sauer, M. Skopina*  
Sufficient Conditions for Smoothness of Subdivision Schemes with General Dilation Matrices: Analysis in the Sup-norm and in the Lp-norms
- 10:00 *C. Conti, M. Cotronei, T. Sauer*  
Full Rank Interpolatory Subdivision Schemes: Factorizations, Filters and Encounters with the Multivariate World
- 11:00 *Coffee Break*
- 11:30 *J.L. Merrien, S. Dubuc, T. Sauer*  
From Hermite Subdivision Schemes to Lagrange Subdivision Schemes
- 13:00 *Lunch*
- 15:00 *Working Groups*
- 20:00 *Dinner*

## Wednesday, October 14, 2009

- 08:45 *P. Grohs, S. Harizanov, J. Wallner, A. Weinmann*  
Proximity Methods in the Analysis of Subdivision Processes
- 09:45 *U. Reif, N. Lehmann, C. Möller*  
Determining the JSR of Palindromic Matrices  $G^1$ -Error Bounds for Proxy Splines Geometric Subdivision
- 10:45 *Coffee Break*
- 11:15 *T. Cashman, M. Floater, R. Goldman, K. Hormann*  
New Trends in Non-uniform Subdivision
- 12:15 *C. Conti, N. Dyn, O. Elisha, D. Levin*  
Subdivision Schemes for Nets of Curves and Their Analysis by Proximity
- 13:30 *Lunch*
- 15:00 *Working Groups*
- 20:00 *Conference dinner*