

# Workshop on Variational Limits

June 15-18, 2004

## Program

### Tuesday, June 15, 2004

- 9:00 – 9:50      **Marshall Slemrod** (Madison)  
*The high frequency singular perturbation limit of an elastic structure in a rapidly flowing fluid*
- 9:50 – 10:40    **Vladimir Gaitsgory** (Adelaide)  
*Singularly perturbed control systems: Limit occupational measures sets and averaging*
- 10:40 – 11:10    Refreshments
- 11:10 – 12:00    **Tomas Roubicek** (Prague)  
*Numerical techniques in approximation of Young measures*
- 12:00 – 14:00    Lunch
- 14:00 – 14:50    **Richard A. Vitale** (Storrs)  
*Convex bodies: Volume and dimension*
- 14:50 – 15:40    **Erik J. Balder** (Utrecht)  
*On infinite-dimensional generalizations of Lyapunov's convexity theorem and Aumann's identity*
- 15:40 – 16:10    Refreshments
- 16:10 – 17:00    **Dan Butnariu** (Haifa)  
*Regularization and resolution of monotone variational inequalities with operators given by hypomonotone approximations*
- 19:00            Dinner

### Wednesday, June 16, 2004

- 9:00 – 9:50      **Edriss S. Titi** (Rehovot)  
*Global regularity for certain analytic turbulence models*
- 9:50 – 10:40    **Raz Kupferman** (Jerusalem)  
*The high Weissenberg number problem*

10:40 – 11:10 Refreshments

11:10 – 12:00 **Peter E. Kloeden** (Frankfurt)  
*The perturbation of attractors of skew-product flows with a shadowing driving system*

12:00 – 13:30 Lunch

13:30 Excursion

**Thursday, June 17, 2004**

9:00 – 9:50 **Elena Litsyn** (Beer Sheva)  
*On some classes of operators determined by the structure of their memory*

9:50 – 10:40 **Peter R. Wolenski** (Baton Rouge)  
*Direct solutions and a sampling method for impulsive differential inclusions*

10:40 – 11:10 Refreshments

11:10 – 12:00 **Franco Rampazzo** (Padova)  
*Non distributional solutions for slow growth optimal control problems*

12:00 – 14:00 Lunch

14:00 – 14:50 **Arjen Doelman** (Amsterdam)  
*A hierarchy of homoclinic saddle-node bifurcations at the onset of pulse self-replication*

14:50 – 15:40 **Itai Shafrir** (Haifa)  
*On a class of vector-valued singular perturbation problems*

15:40 – 16:10 Refreshments

16:10 – 17:00 **Boris S. Mordukhovich** (Detroit)  
*Optimal control of evolution inclusions*

19:00 Dinner

**Friday, June 18, 2004**

9:00 – 9:50 **Asen L. Dontchev** (Ann Arbor)  
*Conditioning of optimization problems*

9:50 – 10:40 **Marc Teboulle** (Tel Aviv)  
*Duality and Lagrangian methods for variational inequalities*

10:40 – 11:10	Refreshments
11:10 – 12:00	<b>Hector J. Sussmann</b> (Piscataway) <i>Flows vs. vector fields in optimal control</i>
12:00 – 13:30	Lunch
13:30	Transportation to Haifa