

LSMS-2011 Program

April 1 - Morning Opening Ceremony: 08:45-09:00

Session 1: Plenary Session LRC-21

(Chair : Nabil Nassif)

Time	Title	Speaker	Page
09:00-09:45		A. El-Saheli	13
09:50-10:35	Numerical simulations of ideal MHD and applications in astrophysics	C. Klingenberg	16

Coffee break 10:40-11:00

LRC-Lobby

Session 2: Contributed Parallel Session - LRC-21

(Chair : Toni Sayah)

Time	Title	Speaker	Page
11:00-11:20	Defining sets in mathematics	E. Mahmoodian	43
11:25-11:45	System Of Linear And Nonlinear Functional Equations In non-Archimedean Normed Spaces	M. B. Ghaemi	30
11:50-12:10	Numerical results for iterative image reconstruction in half-scan and non-uniform attenuated SPECT	E. Nasr	50
12:15-12:35	A posteriori error estimates for unsteady convection-diffusion-reaction problems	N. Chalhoub	24

Lunch 12:40-14:00

LAU Cafeteria (All are invited)

**LSMS-2011 Program
April 1 - Afternoon**

Session 3: Plenary Session LRC-21

(Chair : Kamal Makdisi)

Time	Title	Speaker	Page
14:00-14:45	Anisotropic Finite Element For Fluid Dynamics	T. Coupez	10
14:50-15:35	Particle Kalman Filtering : A Bayesian Framework for Large Dimensional State Estimation Problems	I. Hoteit	14

Coffee break 15:40-16:00

LRC-Lobby

Session 4: Contributed Parallel Session - LRC-21

(Chair : Gabriella Puppo)

Time	Title	Speaker	Page
16:00-16:20	Simulating Bi-Dimensional Plasma Turbulence using the Hasegawa-Mima Equation	G. Antar	38
16:25-16:45	Finite Element Method for Fluid-Structure Interaction at High Reynolds Number	E. Hashem	33
16:50-17:10	Finite-Time Lyapunov Stability of Evolution Variational Inequalities	H.Saoud	56
17:15-17:35	Making Branching Programs Oblivious Requires Superlogarithmic Overhead	W. Machmouchi	42

End of day 1

LSMS-2011 Program
April 2 - Morning

Session 5: Plenary Session-BB0903

(Chair : Christian Klingenberg)

Time	Title	Speaker	Page
09:00-09:45	Kinetic models for dilute suspensions of rigid rods	A. Tzavaras	18
09:50-10:35	Composition, Iteration and Irreducibility of Polynomials	M. Ayad	8

Coffee break 10:40-11:00

BB-Lobby

Session 6: Contributed Parallel Session - BB0903

(Chair : Chadi Nour)

Time	Title	Speaker	Page
11:00-11:20	Chains of holomorphic contractions and Fatou-Bieberbach domains	G. Sabiini	55
11:25-11:45	Reduced basis method for numerical simulation of blood flows in tissues	N. Morcos	48
11:50-12:10	Modeling Approach For The Physiological Tick Life Cycle	D. Sheaib	59
12:15-12:35	Communication-Avoiding General Minimum Residual Method (CA-GMRES)	S. Moufawad	45

Session 7: Contributed Parallel Session - BB0904

(Chair : Samer Habre)

Time	Title	Speaker	Page
11:00-11:20	Math XL: A solution or a problem?	H. Solh	61
11:25-11:45	Understanding Student Learning and Thinking Styles as a way to improve Math and Science Ed	T. Rahal	53
11:50-12:10	On Experimental Design for Nursing	H. Alkutubi	22
12:15-12:35	Solition Solutions to the Kadomtsev Petviashvili Equation by Tanh-Coth Method	A. Jawad	37

Lunch 12:40-14:00

BB-Lobby (All are invited)

**LSMS-2011 Program
April 2 - Afternoon**

Session 8: Plenary Session-BB0903

(Chair : Athanasios Tzavaras)

Time	Title	Speaker	Page
14:00-14:45	Entropy and the numerical integration of conservation laws	G. Puppo	17
14:50-15:35	Ground and Excited States of the Helium Atom by Using Variational Monte Carlo Method	S. Doma	12

15:40-16:00

Coffee break, BB-Lobby

Session 9: Contributed Parallel Session - BB-0903

(Chair : Ramez Maalouf)

Time	Title	Speaker	Page
16:00-16:20	Monte-Carlo method simulations in radiobiology and Radio-Induced DNA damage estimation	Z. Francis	27
16:25-16:45	Third derivative multistep methods for stiff systems	A. Ezz Eddine	26
16:50-17:10	Unstructured Central Finite Volume Schemes for Hyperbolic Conservation Laws	G. Jannoun	35

Session 10: Contributed Parallel Session - BB0904

(Chair : Thierry Coupez)

Time	Title	Speaker	Page
16:00-16:20	The union of closed balls conjecture: origin and validity	C. Nour	52
16:25-16:45	Discontinuous finite element model for simulation of dam break flow through an idealized city	R. Ghostine	31
16:50-17:10	On Some Combinatorial Algorithms for de Bruijn Sequences	A. Alhakim	20

**Panel Discussion on
Current status and future of Lebanon's Doctoral Studies
in the Mathematical Sciences**

BB0903 17:30-18:30

(Chair : Kamal Makdisi)