

MathParCA-2013  
International Conference  
Mathematical Partnership,  
Parallel Computing and Computer Algebra  
Gennadi, Rhodes, Greece

Preliminary program

August, 11-25, 2013

**11-08:**

Day of arrival

**12-08:**

Opening of the Conference.

Gennadi Malaschonok and Alkiviadis Akritas

Parallel algorithm for computing of the general solution of system of ordinary differential equations. Mikhail Rybakov

Constructive Description of Classical and Quantum Dynamics ( lecture 1).  
Vladimir V. Kornyak

Mathematical language "MATHPAR" (lecture 1).  
Gennadi Malaschonok

**13-08:**

Algorithms for factorization of multivariate polynomials.

Dmitry Ivashov

Constructive Description of Classical and Quantum Dynamics ( lecture 2).  
Vladimir V. Kornyak

Mathematical language "MATHPAR" ( lecture 2).  
Gennadi Malaschonok

**14-08:**

Solving differential equations with delayed argument by means of the Laplace.  
transform. Natasha Malashonok

Constructive Description of Classical and Quantum Dynamics (lecture 3).  
Vladimir V. Kornyak

Mathematical language “MATHPAR“ (lecture 3).  
Gennadi Malaschonok

**15-08:**

Computer algebra based numerical solution to quasilinear KdV-like PDEs.  
Vladimir P. Gerdt, Yuri A. Blinkov

Constructive Description of Classical and Quantum Dynamics (lecture 4).  
Vladimir V. Kornyak

Mathematical language “MATHPAR“ (lecture 4).  
Gennadi Malaschonok

**16-08:**

Generalization of LU and Bruhat decomposition.  
Gennadi Malaschonok

Constructive Description of Classical and Quantum Dynamics (lecture 5).  
Vladimir V. Kornyak

Mathematical language “MATHPAR“ (lecture 5).  
Gennadi Malaschonok

**17-08:**

Excursion and informal dinner.

**18-08:**

Day off.

**19-08:**

Implementation of the VAS algorithm in Reduce.  
Alkiviadis G. Akritas

Constructive Description of Classical and Quantum Dynamics ( lecture 6).  
Vladimir V. Kornyak

Mathematical language “MATHPAR“ ( lecture 6).  
Gennadi Malaschonok

**20-08:**

Implementation of the VAS algorithm in Maxima.  
Alkiviadis G. Akritas

Constructive Description of Classical and Quantum Dynamics ( lecture 7).  
Vladimir V. Kornyak

Mathematical language “MATHPAR“ ( lecture 7).  
Gennadi Malaschonok

**21-08:**

Implementation of the VAS algorithm on Android OS.  
Antonios Berkakis, Alkiviadis G. Akritas

Constructive Description of Classical and Quantum Dynamics ( lecture 8).

Vladimir V. Kornyak

Mathematical language "MATHPAR" ( lecture 8).

Gennadi Malaschonok

**22-08:**

On necessary conditions of integrability of degenerated planar ODE systems in one special value of the parameter.

Alexander D. Bruno, Victor F. Edneral

Constructive Description of Classical and Quantum Dynamics ( lecture 9).

Vladimir V. Kornyak

Mathematical language "MATHPAR" ( lecture 9).

Gennadi Malaschonok

**23-08:**

Current state of the Mathpar computer algebra web project.

Gennadi Malaschonok and Ivan Borisov

Constructive Description of Classical and Quantum Dynamics (lecture 10).

Vladimir V. Kornyak

Mathematical language "MATHPAR" ( lecture 10).

Gennadi Malaschonok

**24-08:**

Closing Ceremony

Excursion.

**25-08:**

Day of departure.

**BUS TIMETABLE 3/6/2013–30/9/2013  
(6.50 EUR one way)**

**RODOS – GENNADI:**

**06:15 - 06:45 - 09:00 - 09:30 - 10:00 - 11:30 -  
13:00 - 14:30 - 16:30 - 18:00 - 19:30 - 21:15**

**GENNADI – RODOS:**

**08:00 - 09:00 - 09:45 - 10:30 - 11:30 - 12:20 - 13:45 -  
14:45 - 15:45 - 16:30 - 17:20 - 18:30 - 19:20**