Spring School - 2011

Mathematics and Computer-Aided Modeling in Sciences

Szeged, May 19-26

Preliminary programme

May 19

Plenary talks (Big educational Building, Dom Square)	
09.00 - 11.00	Registration
11.00 - 11.10	Opening
11.10 - 11.50	Tibor Krisztin: Can we understand the unpredictable? The mathematics of chaos
11.50 - 12.30	Péter Maróti: Simulation in Biology
12.30 - 13.10	Talks of some prize-winners on the high school competition (2010): Eliza Bánhegyi (József Attila Gimnázium, Makó): Then and Now - Triangulation Andor Viharos (Radnóti Miklós Kísérleti Gimnázium, Szeged): Thoughts about the game Maffia Bernadett Juhász-Bóka (Horváth Mihály Gimnázium, Szentes): Solving second order equations by geometric ways Annamária Kiss (Arany János főgimnázium, Nagyszalonta): Ramanujan
13.10 - 14.30	Welcome reception

Group of researchers and Ph.D. students (English); Small Educational Building, Rooms 25-26	
14.30 - 18.30	Ferenc Peták, Dorottya Czövek: Experiments in Medical Physics

Teachers, high school students (Hungarian-English); Bolyai Institute, Room Szőkefalvi	
14.30 - 16.30	Đurđica Takači: Mathematical modeling with Pascal triangle
16.30 - 18.30	Attila Máder: Computer-aided, exploration centered teaching of math in the practice II. Experimental Mathematics in Action in the Classroom

A program a Magyarország – Szerbia IPA Határon Átnyúló Együttműködési Programban az Európai Unió társfinanszírozásával valósul meg.
Projekat sufinansira Evropska Unija u sklopu IPA prekogranicnog programa Mađarska-Srbija
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May 20

Group of researchers and Ph.D. students (English); Bolyai Institute, Room Szőkefalvi	
09.00 - 11.00	Danijela Rajter-Ćirić: On the probability and stochastic models
11.00 - 13.00	Eszter Katonáné Horváth: Islands
13.00 - 14.00	Lunch: Restaurant Gödör
14.00 - 18.00	Róbert Vajda: Symbolic and numerical study of equations and inequalities with computer algebra software

Teachers, high school students (Hungarian-English); Small Educational Building, Rooms 25-26	
09.00 - 11.00	László Égerházi, Dorottya Czövek: Experiments in Medical Physics; Introduction
11.00 - 13.00	Experiments in Medical Physics; Practice in 2 groups
13.00 - 14.00	Lunch: Restaurant Gödör
14.00 - 16.30	Gingl Zoltán: Demonstration experiments with a sound card
16.30 - 18.30	Lajos Szilassi: The camera, what is in front and behind (The specialties of axonometric and perspective visualization)

May 21

Group of researchers and Ph.D. students (English); Bolyai Institute, Room Szőkefalvi	
09.00 - 13.00	János Karsai: Study of dynamic systems with Mathematica
13.00 - 14.00	Lunch: Restaurant Gödör
14.00 - 16.00	Zoltán Kovács: Fractal design with computers

Teachers, high school students (Hungarian-English); Bolyai Institute, Room Rédei	
09.00 - 11.00	Géza Makay: Building a conference center or triangulating surfaces
11.00 -13.00	Zoltán Kovács: Free software in mathematics education
13.00 - 14.00	Lunch: Restaurant Gödör
14.00 - 16.30	Krisztina Boda: Basic biostatistics with applications

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May 23-25

Mathematica course (in English), Small Educational Building, Room 22	
09.00 - 17.00	János Karsai: Computer-Aided Modeling with Mathematica

May 26

Mathematica course (in English), Small Educational Building, Room 22	
09.00 - 12.00	János Karsai: Computer-Aided Modeling with Mathematica

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