

Tuesday, July 3rd, 2007

Special Session : Mathematical Truth and Provability in the 21st Century

09:00–10:45 Chairman: **Solomon Marcus**

09:00–10:00	Douglas Bridges	Constructive reverse mathematics
10:15–10:45	Dragoş Vaida	Proof, explanation and example in the mathematical discourse of some Romanian mathematicians: Dan Barbilian and Grigore C. Moisil

Coffee

11:15–12:45 Chairman: **Douglas Bridges**

11:15–11:45	Ilie Pârvu	Mathematical proof and the argumentative structure of science
11:45–12:15	Cristian Calude	The halting problem and experimental mathematics
12:15–12:45	Doru Ştefănescu	Mathematical proofs and algorithms

Lunch

15:30–17:45 Chairman: **Cristian Calude**

15:30–16:15	Solomon Marcus	Proving and programming
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Coffee

16:45–17:15	Virgil Căzănescu	Foundation of the rewriting in an algebra
17:15–17:45	Gheorghe Ştefănescu	Tiling and Iteraction

17:45–19:15 Chairman: **Dragoş Vaida**

17:45–18:15	Gabriel Istrate	Phase transitions in combinatorial optimization problems and computational complexity: towards rigorous connections
18:15–18:45	Cristian Kevorchian	A pragmatic overview of automated reasoning
18:45–19:15	Gabriel Ciobanu	Proof and deduction in dynamic interaction-based systems