
Contents

Part I *Mathematical culture, education and media*

Are European students sufficiently prepared in mathematics? – Questionnaire results	
<i>Rüdiger Achilles</i>	5
Statistical methods for measuring competencies: analysis of mathematical preparation of freshmen	
<i>Stefania Mignani, Roberto Ricci</i>	23
Mathematics and <i>media</i>: tools, expectations, results	
<i>Simonetta Di Sieno</i>	39
The Trouble with Mathematics in the UK	
<i>James F. Blowey</i>	59
Metamorph from Escher to virtual architecture	
<i>Michele Emmer</i>	81
Two examples of unbounded and compact triply extended spaces	
<i>Franco Ghione</i>	99
Bringing light to a dark Universe	
<i>Carlton Baugh, Pete Edwards, Carlos Frenk</i>	121
Mathematics and cartoons	
<i>Gian Marco Todesco</i>	129
Painters, Murderers, Mathematicians	
<i>Peter Deufhard</i>	141
Lucio Saffaro, artist of geometry	
<i>Michele Emmer</i>	153

The mathematical logic of narrative
Apostolos Doxiadis 167

Part II Mathematics and Cinema

A Beautiful Mind
Directed by *Ron Howard* 183

A recurrent eponym: Nash and game theory
Marco Li Calzi 185

The Bank
Directed by *Robert Connolly* 203

***The Bank*: Mathematics, Economics and Social Responsibility
for the new millennium**
Riccardo Cesari 205

Moebius
Directed by *Gustavo R. Mosquera* 213

***Moebius*: a film and an invitation to topology**
Massimo Ferri 215

Cube
Directed by *Vincenzo Natali* 227

***Cube*: an opportunity to talk about prime numbers**
Alberto Perelli 229

The Mirror Has Two Faces
Directed by *Barbra Streisand* 237

Funny mathematics?
Michele Emmer 239

Enigma
Directed by *Michael Apted* 245

Fermat's Last Theorem
Directed by *Simon Singh, John Lynch* 253

A few reflections on *Fermat's Last Theorem*
Mirella Maresi, Angelo Vistoli 257

No More Time
Directed by *Ansano Giannarelli* 263

Part III *Mathematics and Theatre*

The Logic of Theater
Piergiorgio Odifreddi 273

Napoleon Magical Emperor
 Written by *Sergio Bini, stage name Bustric* 277

Regarding *Napoleon Magical Emperor*
Sergio Bini, stage name Bustric..... 281

Napoleon, mathematics and the *École Polytechnique*
Claude Viterbo 285

Uncle Petros and Goldbach’s Conjecture
 Written by *Apostolos Doxiadis*..... 295

Uncle Petros between science, literature and the theatre
Angelo Savelli 297

Some famous problems in the History of Number Theory
Umberto Zannier..... 305

Proof
 Written by *David Auburn* 319

***Proof*: Mathematics and New Dramaturgy**
Andrea Paolucci 323

Mathematics and the American Theater Tradition
Franco La Polla 325

A mathematician reads *Proof*
Angelo Vistoli 327

Galois
 Written by *Luca Viganò* 331

Évariste Galois, a Tragic Romantic Hero
Luca Viganò 333

Évariste Galois
Paolo Salmon 345

Arcadia
 Written by *Tom Stoppard* 355

Even in *Arcadia* sex, literature and... mathematics
Leonardo Angelini, Francesco Giannini 359

Wilde in *Arcadia*

Laura Guidotti 375

***Father Saccheri*: a mathematician on stage**

Maria Rosa Menzio 383

Is mathematics theatrical?

Michele Emmer 391



<http://www.springer.com/978-3-540-71963-2>

Mathematics and Culture in Europe

Mathematics in Art, Technology, Cinema, and Theatre

Manaresi, M. (Ed.)

2007, X, 405 p. With DVD., Softcover

ISBN: 978-3-540-71963-2