

# Table of Contents

Preface ..... v

*Michel Planat*

The phase of oscillations and prime numbers: classical and quantum ..... 1

*Jean-Louis Verger-Gaugry*

On self-similar finitely generated uniformly discrete (SFU-)sets  
and sphere packings ..... 39

*Jean-Pierre Gazeau, Zuzana Masáková, and Edita Pelantová*

Nested quasicrystalline discretisations of the line ..... 79

*Christoph Bergbauer and Dirk Kreimer*

Hopf algebras in renormalization theory: locality and Dyson–Schwinger  
equations from Hochschild cohomology ..... 133

*Emmanuel Royer*

Fonction  $\zeta$  et matrices aléatoires ..... 165

*Philippe Michel*

Some recent applications of Kloostermania ..... 225

*Ariane Mézard*

Introduction à la correspondance de Langlands locale ..... 253