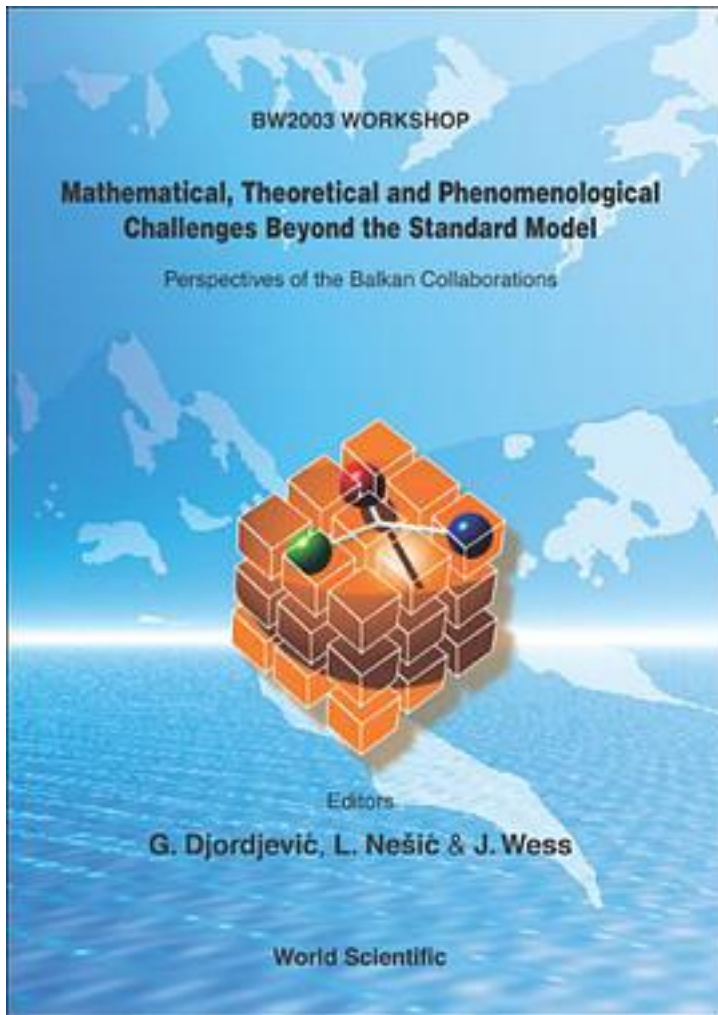# Mathematical, Theoretical And Phenomenological Challenges Beyond The Standard Model

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This book contains invited lectures and shorter contributions to the workshop 'Mathematical, Theoretical and Phenomenological Challenges Beyond the Standard Model: Perspectives of the Balkan Collaborations' (BW2003), which was held in Vrnjaeka Banja, Serbia, 29 August - 3 September. It was one of the first high-level HEP workshops in the South-East European region after many years, and the papers give a clear perspective on the scientific potential of this area. The contributions cover topics and problems under research in high-energy particle physics and quantum field theory, in particular: string theory and M-theory; grand unification; quantum gravity and cosmology; standard and noncommutative quantum field theory. Some papers concern more mathematical topics, such as the integrability topology of gauge groups and operator matrices. The contributors are leading international scientists, such as G Arutyunov, K Behrndt, G Cardoso, M Chaichian, G Lazarides, D Luest, N Kaloper, G Senjanoviae, and J Wess, with an emphasis on researchers from South-East Europe, including B Bajc, A Mikovic and B Sazdovic.

作者介绍:

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