FOREWORD

The 2019 "Bucharest Conference on Geometry and Physics" was the first conference organized by the Bucharest group on Geometry and Physics (GAP), an interdisciplinary research group founded in 2013 at the "Horia Hulubei" National Institute of Physics and Nuclear Engineering and supported by the "Simion Stoilow" Institute of Mathematics of the Romanian Academy in order to run collaborative seminars between members of the two institutes as well as between physicists and mathematicians from international institutions working in mathematical-physics, algebraic geometry, differential geometry and related areas. The formation of the group relied on the dedication and continuous support of professors Stefan Berceanu, Vasile Brînzănescu and Calin Lazaroiu.

The conference took place in Bucharest during the period September 2-6, 2019 and was hosted by the "Simion Stoilow" Institute. It covered mathematical subjects inspired by problems of theoretical physics which originated in string theory, supergravity and integrable systems and led to new developments in various areas of differential and algebraic geometry as well as non-commutative geometry and topology. The conference involved speakers affiliated to institutions located in Europe, the United States and East Asia.

The present volume collects peer-reviewed expanded versions of certain contributions to the conference.

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Elena Mirela Babalic
National Institute of Physics and Nuclear Engineering
Department of Theoretical Physics
Reactorului 30, Bucharest-Magurele 077125, Romania
mbabalic@theory.nipne.ro