

Faculty of Sciences and Mathematics, University of Niš, Serbia
Faculty of Mathematics, University of Belgrade, Serbia
Faculty of Science, University of Kragujevac, Serbia
Mathematical Institute of the Serbian Academy of Sciences and Arts



XX GEOMETRICAL SEMINAR

Book of Abstracts

Editors: Ljubica Velimirović and Mića Stanković

Vrnjačka Banja, 2018.

Organizers: Faculty of Sciences and Mathematics University of Niš, Serbia and Faculty of Mathematics, University of Belgrade, Serbia.

Co-organizer: Faculty of Science, University of Kragujevac, Serbia.

Conference Topics: Differential Geometry, Topology, Lie Groups, Mathematical Physics, Discrete Geometry, Integrable Systems, Visualization, as well as other subjects related to the main themes are welcome.

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PREFACE

The international conference 20th Geometrical Seminar 2018, is to be held at Vrnjačka Banja, Serbia from May 20th to 23rd, 2018.

This Book of abstracts is collection of abstracts of talks to be presented at the conference from different geometric topics. Participants will have 15 and 30 minutes talks. The 20th Geometrical Seminar has more than 120 participants from all over the world. This meeting is bringing together mathematicians, physicists and engineers interested in Geometry and its applications. The aim of the Geometrical Seminar is to enable researches to give lectures on new results, exchange ideas, problems and conjectures. This issue contains abstracts of talks to be presented at the 20th Geometrical Seminar. The abstracts were accepted for presentation after having been subjected to the usual strict reviewing process of the conference committee. The editors thank the members of the Committees of Geometrical Seminar and to the Faculty of Sciences and Mathematics, Niš, Faculty of Mathematics, Belgrade, to the Faculty of Science, Kragujevac and Mathematical Institute SANU for their great effort in organizing this conference.

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Mathematical Conference: XX Geometrical Seminar
May 20 - 23, 2018, Vrnjačka Banja, Serbia

On canonical almost geodesic mappings of type $\pi_2(e)$

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In this study we consider canonical almost geodesic mappings of type $\pi_2(e)$. We have found the conditions that must be satisfied for the mappings to preserve the Riemann tensor. Also we consider canonical almost geodesic mappings of type $\pi_2(e)$ of spaces with affine connections onto symmetric spaces. The main equations for the mappings are obtained as a closed mixed Cauchy type system of PDEs. We have found the maximum number of essential parameters on which the solution of the system depends.

XX Geometrical seminar is organized by Faculty of Sciences and Mathematics, University of Niš and Faculty of Mathematics, University of Belgrade in collaboration with Faculty of Science, University of Kragujevac and Mathematical Institute of the Serbian Academy of Sciences and Arts