



# University of Montenegro

## Faculty of Science and Mathematics

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Number \_\_\_\_\_ Date \_\_\_\_\_

### Letter of Endorsement

The centre of excellence “DYNAMICAL SYSTEMS-GEOMETRY-COMBINATORICS is the leading regional centre for WBC in the areas of dynamical systems, geometry, topology and combinatorics. Because of its high level research and dissemination of knowledge in the mentioned areas, we fully consider it as the natural coordinator of the future network.

Faculty of Science and Mathematics has realized and realizes many ways of collaboration with the members of this centre. Some of them are:

- joint organization of the conference ‘Geometric Combinatorics’ Kotor 98;
- invitation for the participation at the workshops: Svjetlana Terzić has been twice invited speaker at the workshop ‘Contemporary geometry and related topics’, Belgrade 2002, 2005; Vladimir Dragović and Rade Živaljević have been invited speakers at the Workshop devoted to 25th anniversary of Faculty of Science and Mathematics, Podgorica 2005.
- participation at the seminars: Svjetlana Terzić was invited to give a talk at Mathematical Colloquium in Belgrade 2005, Vladimir Dragović was invited to give a talk at the seminar Analysis and applications, Podgorica 2005;
- visiting professor: for three years Vladimir Dragović has been invited to give special course for the fourth year students of mathematics at Faculty of Science and Mathematic etc.

Faculty of Science and Mathematics tries to put effort in the improvement of the teaching and research level in the areas of geometry and topology. In that sense, there is running seminar Analysis with applications at the Faculty which covers some of the topics of proposed network. People from our Faculty that could contribute in the work of this network would be

- Prof. dr Žana Kovijanić - interested in some aspects of combinatorial topology
- Prof. dr Svjetlana Terzić – interested in the areas of differential geometry and algebraic topology. She has active collaboration in the area of algebraic topology with the Faculty of Mechanics and Mathematics at Moscow State University ( Taras Panov and Theodore Popelensky) and Mathematical

Institute at Ludwig-Maximilians University in Munich (Dieter Kotschick).  
Some of her publications are:

1. Cohomology with real coefficients of generalized symmetric spaces, (Russian) *Fundamentalnaya i Prikladnaya Matematika*, Vol. 7, (2001), no. 1, 131-157
2. Pontryagin classes of generalized symmetric spaces, (Russian) *Matematicheskie Zametki*, Vol. 69, (2001), no.4, 613-621; English transl. in *Mathematical Notes*, Vol. 69, (2001), no. 4, 559-566.
3. On formality of generalised symmetric spaces, (with D.~Kotschick) *Mathematical Proceedings of Cambridge Philosophical Society*, 134, (2003) 491-505.
4. Rational homotopy groups of generalised symmetric spaces, *Mathematische Zeitschrift*, 243, (2003), 491-523.
5. On rational topology of four manifolds, *Proceedings of the Workshop Contemporary Mathematics and Related Topics*, World Scientific 2004, 375-389.
6. Rational topology of gauge groups and of spaces of connections, *Compositio Mathematicae* , 141, (2005), 262-270.

Therefore, her scientific collaboration could be seen as one of the orientations of the centre.

We expect this network could have great contribution in improvement of teaching and research level in the listed areas at the Faculty of Science and Mathematics. We also consider this network very important for regional collaboration as well as great opportunity for including the member institutions to some broader scientific areas and collaborations. The way to realize it would be by hosting scientist from the centre or its partners, by sending our scientist for short stays as well as joint organizations of seminars, workshops and conferences.

**Dean of the Faculty  
of Science and Mathematics**

**Prof. dr Milojica Jaćimović**