

Review

1. Scientific / scholarly success of the project

Contribution and importance of the work to the further development of the discipline, any importance for related disciplines (transdisciplinary questions and methods), quality of the dissemination of the results (publications, activities at conferences and so on)

Comments

As a result of the grant implementation new strong results concerning \bar{d} -complexes, Bergman kernels, and Bergman spaces were obtained. New connections between complex analysis and differential geometry were revealed and studied. Important results on spectral properties of operators connected with \bar{d} -complexes have been obtained. All this is based on new ideas and methods developed by the grant participants. The developed methods can find new applications in complex analysis, spectral theory, and differential geometry.

2. Development of human resources in the course of the project

Improvement of the project leader's standing in the relevant scientific community; involvement of young researchers in the project work; development of international contacts

Comments

The works published by the project leader during the grant period have attracted considerable attention of mathematicians working in complex analysis. The monograph published in 2017 contains chapters that allow beginners to learn some basic complex analysis as well as chapters that did not have sufficient coverage in the literature. During the grant period two grant participants defended their PhD theses, and one has received habilitation. The grant participants collaborated with a Montenegro University employee.

3. Effects of the project beyond the research field

(in the sense of applications in or impacts on social, cultural, ecological, medical, economic and / or technological areas)

Comments

The project was of a purely mathematical nature

4. Project performance (in the sense of efficient use of available resources)

Were the goals achieved? Were the changes to the original plan sensible? What is the relation between the results obtained, the duration of the project and the resources available?

Comments

Practically all goals declared in the grant application have been achieved. The grant participants mostly followed the research plan. The amount of scientific information received by the project participants during the grant period corresponds to its length and resources expended.

5. Future perspectives of the research work

Should the topic be pursued or should the researchers involved be advised to switch their attention to a different area? What goals does the referee feel should be set for future work?

Comments

In my opinion, the topics studied by the grant participants are not exhausted. Of a special interest would be the development of a similar theory by weakening the subharmonicity condition for the function ϕ involved in the setting the weights of the spaces studied in the project.