

Bern, October 30, 2020

Subject: **Review on the project for PhD students training program in Mathematics**

To whom it may concern

since 5 years I maintain very close scientific and personal connections with the Department of Mathematical Analysis and Probability Theory at National technical university of Ukraine Igor Sikorsky Kyiv Polytechnic Institute. Our close collaboration over 4 years was supported by a designated grant from the Swiss National Science Foundation (project IZ73Z0_152292) jointly awarded to Prof. O.I. Klesov and myself. In addition to joint research with Prof. Klesov, I have successfully collaborated with other members of his team, which resulted in published papers.

The collaborative work on these projects and numerous research visits gave me numerous opportunities to meet several members of the department, including PhD-students. I could assess presentations made by them and staff members at international conferences, participated in discussions of issues concerning the educational process, subjects being taught etc. From what I learned, I am ready to confirm that the level of teaching and research at the department is high and well up to the international standards. The department employs highly qualified teaching staff, who supervise well-prepared doctorate students.

The peer-reviewed program is intended for PhD-students with mathematical background and aims to cover both classical mathematical facts and some up-to-date applied topics that are of interest in modern financial, actuarial or IT professions. All the subjects included to the project, both mandatory and optional, from the purely mathematical point of view provide a solid background to engage in the research work at the world's leading research institutes and give some fundamental basics for cutting-edge mathematical problems. The latter becomes even more apparent if one takes into account the broad scientific international collaboration of Prof. Klesov and his team with the European mathematical community (to name just a few, Bern, Paderborn, Köln, Ulm, Dresden, Oslo, Debrecen, Cardiff, Paris, Uppsala).

The project under consideration comprises reasonable content, is well-structured, easily understood and educationally correct. Based on above arguments and the discussions held with the authors of

the program, I highly recommend it for implementation into the educational process at the Department of Mathematical Analysis and Probability Theory at National technical university of Ukraine Igor Sikorsky Kyiv Polytechnic Institute.

Sincerely yours

Prof. Dr. Ilya Molchanov