

OPINION
by Prof. Iliya Bouyukliev
about the competition for acquiring the academic position of
“Associate Professor”
at the Institute of Mathematics and Informatics of the
Bulgarian Academy of Sciences,
in the field of higher education:
4. Natural Sciences, Mathematics and Informatics;
professional field 4.5. Mathematics;
scientific specialty “ Mathematical methods in physics (Algebraic
and statistical methods)”,
announced in the Bulgarian State Gazette No. 89/ 16.10.2020

The only candidate in the competition is Chief Assistant Prof. Veselin G. Filev, PhD.

The reason for expressing the present opinion is my appointment as a member of the Scientific Jury by order № 216/14.12.2020 of the Director of the Institute of Mathematics and Informatics (IMI) of the Bulgarian Academy of Sciences (BAS), Academician Veselin Drenski, regarding the procedure for acquiring the academic position “Associate Professor” in professional field 4.5. Mathematics; scientific specialty “ Mathematical methods in physics (Algebraic and statistical methods)”, announced in the Bulgarian State Gazette No. 89/ 16.10.2020.

1. Short biographical data

From the presented professional autobiography of the candidate, it is evident that he was born on 05.10.1979. In 2003 he acquired a master degree in mathematics at the Faculty of Physics of the Sofia University “St. Kliment Ohridski”. In 2008 he defended his dissertation on "Aspects of The Holographic Studies of Flavordynamics" at the University of Southern California, Los Angeles, USA.

After that he held a research doctoral positions in 2008-2010 at the Dublin Institute for Advanced Studies, Dublin, Ireland, in 2010-2012 at the Max Plank Institute, Munich, Germany, in 2013-2016 at the Dublin Institute for Advanced Studies, Dublin , Ireland. Since 2017 he has been an assistant and chief assistant professor at the Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences. In some of those research positions he also have teaching activities in mathematics and physics.

2. Scientific publications

According to the presented List of all publications of the candidate, Dr. Filev is author of a PhD thesis and 38 other scientific publications, 34 of which are in journals with impact factor and 3 are in journals with impact rank. Dr. Filev is the only author of 12 of the publications. Three of the scientific publications are independent.

It is clear from the candidate's CV and the publications that he has very serious scientific achievements.

3. Summary of the scientific contributions

According to the presented "Information on the original scientific contributions", Dr. Filev participates in the competition with seven publications, six of which have an impact factor and are in the top quartile. The research is dedicated to theoretical physics and mathematical models related to it.

Due to the fact that the publications are co-authored, the candidate mentions the individual contribution in the publications.

4. Citations

According to the "General List of Citations", Dr. Filev presents an impressive number of 813 citations, mainly in Web of Science and Scopus. For participation in the competition, 12 citations are presented in the Web of Science.

The number of publications and citations exceeds many times the minimum requirements by low.

5. Participation in National scientific or educational projects

Dr. Filev participates in the competition with 2 projects from NSF for the last 5 years. It is clear from his CV that he has funding from at least eight foreign academic institutions.

6. Quantitative indicators

The quantitative indicators of the criteria for acquiring the academic position of Associate Professor required by the Law for development of the academic personnel of the Republic of Bulgaria, the Regulations for its enforcement and the Interior regulations of IMI-BAS are all met by the candidate.

7. Personal impressions

I have no personal impressions of the candidate. I think that the topic he is working on is very specific for the institute. Therefore, the candidate is expected to apply the accumulated experience and knowledge to expand the scientific topic in the case of winning the competition.

8. Conclusion

I accept Summary of the scientific results of the publications for participation in the competition presented by Dr. Filev. The scientific publications from the "List of Scientific Papers" are related to the topic of the competition.

In my opinion, all the author's publications are original. Their content is correctly reflected in the Author's reference. The above gives me reason to believe that Dr. Filev is a highly qualified specialist who has proven his ability to conduct research at a high level. This gives me reason to recommend to the members of Scientific Jury to elect **Dr. Veselin Georgiev Filev** for the academic position "**Associate Professor**" in professional field 4.5. Mathematics, scientific specialty Mathematical methods in physics.

12.02.2021

The opinion was prepared by:

(Professor Iliya Bouyukliev,

Institute of Mathematics and Informatics, BAS)