

# STATEMENT REPORT

By Professor PhD Nikolai Manev,

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On the announced competition for a position of Associate Professor in the

Professional field: 4.5. *Mathematics*,

Scientific specialty: *Mathematical methods in Physics (Algebraic and statistical methods)*

## 1. General description of the procedure and submitted documents

The competition for a position “Associate Professor” subject of this statement report is announced in the State Gazette (Darzhaven vestnik) no. 89 / 16.10.2020. The open position is at department „Algebra and Logic“ of the Institute of Mathematics and Informatics – BAS (IMI).

There is only one applicant, namely

**Chief Assistant Professor Ph.D. Veselin Georgiev Filev**

## 2. Candidate’s Biographical data

Veselin Filev received Ms Degree on physics in 2003 at SU “St. Kliment Ohridski” majored in “Theoretical and Mathematical Physics”. The PhD. degree was conferred on him by University of Southern California, Los Angeles, USA in 2008 after defending the thesis titled „ Aspects of The Holographic Studies of Flavourdynamics“.

In the period 2008 –2016 Veselin Filev did research at postdoc positions at Dublin Institute for Advanced Studies, Dublin, Ireland and Max Plank Institute, Munich,

Germany. Since 2017 he is with department “Algebra and Logic” of the Institute of Mathematics and Informatics. Since January 2020 the candidate gives lectures at the American University of Bulgaria.

The aforesaid confirms that Veselin Filev corresponds exactly to the requirements of article 24(1) of the Act on Development of the Academic Staff in the Republic of Bulgaria and article 53(1) of the Regulations for its application.

### **3. Description and estimation of the research, papers and contributions**

Veselin Filev has presented a list of **7** papers which are written after his PhD thesis. **Six** of them have **impact factor in quarter Q1 and one is with SJR**. All papers are joint work with other researchers that is typical for his research area. The numerical indicators (points) corresponding to the presented papers **exceed the legislative requirements**.

Scientific interests of Veselin Filev concern holographic principle in modern understanding of quantum gravitation. His works can be classified into two groups:

1. **Direct applications of AdS/CFT correspondence to Dp/Dq brane intersection.** This group contains papers with numbers 1 and 2 from the list of publications.
2. **Computer simulations of matrix models to test directly a low-dimensional version of AdS/CFT correspondence.** This group consists of papers with numbers 3, 4, 5, 6, and 7.

The resumes of the papers and the list of scientific contributions of the candidate included in his application describe truthfully the content of the papers and represent

correctly the candidate's scientific contributions. The style of the papers is very good. In my opinion the results of Veselin Filev are at high scientific level.

#### **4. Characterization of the scientific-organizational and educational activity of candidates**

Veselin Filev is presented information about participations in two national projects that is sufficiently to cover the legislative requirements.

The candidate has given lectures on Finite Mathematics, Statistics, and Mechanics and Thermodynamics.

#### **5. Impact of the candidate's results on works of other scientists**

Veselin Filev is presented a list of **12 (of total 813) appeared in Q1 of Web of Science** papers of other authors citing his results. This brings 72 points that exceeds the legislative requirement of 70 points.

My conclusion is that **Veselin Georgiev Filev is well known to the researchers working in his research area.**

### **CONCLUSION**

On the grounds of varied scientific and scientific-organizational works of Veselin Georgiev Filev I can declare without any hesitation that he meets the legislative requirements (The Act on Development of the Academic Staff in the Republic of Bulgaria, The Regulations for its application, The Regulations of BAS), and the requirement of IMI for the rank and position of "Associate Professor". **I give my positive**

**estimation and with conviction recommend to the Assessing Committee to propose to the Scientific Council of IMI to confer on Chief Assistant Professor PhD Veselin Georgiev Filev the rank and position “Associate Professor” in professional field: 4.5. *Mathematics*, Scientific specialty: *Mathematical methods in Physics (Algebraic and statistical methods)*.**

1. 02. 2021 г.

Signature: