

# **The Principles of the 'Astronomy and Astrophysics' Commission for the Evaluation of the Dissertations and Persons of the Applicants for the 'DSc.' Degree**

The work of the commissions proceeds from the Rules for the Granting of the 'Doctor of Sciences' Degree in the ASCR issued as the Guidelines of the Academic Council of the ASCR No. 3/2006, from the General Principles for the Evaluation of Dissertations and Persons of an Applicant binding for all commissions issued by the Panel for the Granting of a Scientific Title of 'Doctor of Sciences', and governed by the Regulatory Procedure to the Rules for the Granting of the 'Doctor of Sciences' Degree.

## **1. General Criteria for the Evaluation of the Dissertations and Persons of the Applicants**

### **1. Doctoral Dissertation**

The doctoral dissertation can be considered as:

- a) an independent, original work summarising and developing the author's contribution in the given scientific field.
- b) a comprehensive collection of original, already published scientific works by the applicant joined with an accompanying text, explaining the essence and the contribution of the published studies for the given scientific field and generalising the author's results.
- c) a component of the dissertation may be also research on and implementation of a unique scientific apparatus or equipment or new diagnostic or otherwise universally applicable methods.

It is not permissible to present as the doctoral dissertation work that has been used for acquiring another scientific or scientific-pedagogical degree, e.g. the CSc., Ph.D. degree of the title of university associate professor or reader (*docent*).

### **2. Who Qualifies as an Applicant**

The applicant for the 'DSc.' degree must be a distinctive, internationally recognised person whose scientific results represent an original contribution in the given scientific discipline, and he has successfully trained at least one doctoral candidate or candidate of sciences. The commission will evaluate the person of the applicant using scientometric criteria (a list of published works, invited lectures at international conferences, citation response to the work listed excluding all self-citation by the author's collective\*). For the acceptance of the work for the defence, it is necessary to prove at least fifty (50) citation responses as evidence of the applicant's scientific recognition.

Also other information completing the person of the applicant like awards of the scientific work of the applicant (invited lectures abroad, awards, honorary doctorates, medals, honorary memberships) will be taken into account, i.e. whether the applicant has been the investigator of domestic or international grants or projects, the organisation of scientific conferences, membership in the editorial council of

international journals, activity in the bodies of international scientific organisations, long-term scientific internship abroad, implementation of the results of scientific examination in work and so on. All of these facts are attested by the applicant in his/her scientific curriculum vitae.

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\*) Self-citation is such a citation where the intersection of the sets of the authors of the article cited and citing the article is not an empty set.

### **3. Selection of Opponents**

The submitted dissertation will be evaluated by at least three opponents. A minimum of two of the opponents must be professors or doctors of sciences. None of the opponents may be a direct supervisor or subordinate of the applicant or his/her immediate co-worker and should not be a co-author of the works submitted as a part of the dissertation.

### **4. Co-Authorship**

Should the applicant submit as the dissertation a collection of published works of which some were published with co-authors, he/she must mark in commentaries his/her share and attach a statement by the co-authors who confirm the authorship of the applicant in the marked parts and evaluate his/her share in the results achieved.

## **2. Materials Required for the Defence:**

- a) proof of the successful completion of university education (diploma);
- b) proof of the granting of the academic Ph.D. degree position or proof of the granting of the scientific degree of Candidate of Sciences or proof of the granting of a title of the same standing;
- c) a curriculum vitae with an overview of the scientific work so far;
- d) the list of publications that form the background materials of the dissertation (according to the requirements defined in the 'Rules');
- e) the theses of the dissertation in twenty-five (25) copies,
- f) the dissertation in five (5) copies,
- g) a statement of in what labour relation the dissertation was created,
- h) an expression of your own scientific contribution and share of the work if the scientific results listed in the dissertation were acquired with co-authors,
- i) written opinions of two Doctors of Sciences or Professors (See Art. III, Sect. 4),
- j) if the applicant presents a new dissertation in the same field in a new proceedings for the granting of a scientific title, a statement of who issued the denial decision, the title of the original dissertation and the definition of the differences between.

The commission may request even further supplementary materials (e.g. in the case I.1.c).

14 March 2008

prof. RNDr. Jan Palouš, DrSc.  
Chairperson of the Commission

Discussed and approved on 15 May 2008 by the Panel for the 'Doctor of Sciences' Degree.

prof. RNDr. Antonín Holý, DrSc.  
Chairperson of the Panel  
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