**MASARYK UNIVERSITY**

**FACULTY OF SCIENCE**

**Doctoral Thesis**

**AUTHOR'S NAME**

**Brno 2018**

**MASARYK UNIVERSITY**

**FACULTY OF SCIENCE**

**Title of the Thesis**

**Doctoral Thesis**

**AUTHOR’S FULL NAME**

**(without academic degrees)**

Supervisor (supervisor’s full name including academic degrees)

National Centre of Biomolecular Research

&

Central European Institute of Technology

**Brno, year of submission of the thesis**

**Bibliografický záznam**

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| **Název práce:** | Title of the Thesis in Czech |
| **Studijní program:** | Vědy o živé přírodě |
| **Školitel:** | Full name including academic degrees |
| **Akademický rok:** | Year/Year |
| **Počet stran:** | Number of pages |
| **Klíčová slova:** | Klíčové slovo; Klíčové slovo; Klíčové slovo; Klíčové slovo; Klíčové slovo (at least 30 characters; the keywords match the keywords listed in the electronic Archive) |

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| **Title of the Thesis:** | Title of the Thesis in English |
| **Degree Programme:** | Life Sciences |
| **Supervisor:** | Full name including academic degrees |
| **Academic Year:** | Year/Year |
| **Number of Pages:** | Number of pages (includes all pages starting with the title page) |
| **Keywords:** | Keyword; Keyword; Keyword; Keyword; Keyword; Keyword; (at least 30 characters; the keywords match the keywords listed in the electronic Archive) |

**Abstrakt**

[... text of the abstract in Czech – matches the text in the electronic Archive, minimum of 100 characters and a maximum of 4000 characters (without spaces)]

**Abstract**

[... text of the abstract in English – matches the text in the electronic Archive, minimum of 100 characters and a maximum of 4000 characters (without spaces)]

Both abstracts should be on one page ideally, if not, each abstract shall be given on a separate page!

**Acknowledgement**

[.... text of the acknowledgement, not mandatory...]

**Declaration**

I hereby declare that I have written this dissertation thesis independently using the cited resources.

Brno, date ………..………… (your signature)

Your full name without degrees

**Original publications and definition of the author’s contribution**

The thesis is based on three manuscripts written by the author of the thesis (Jindřich Všetečka, JV).

**Article 1 (Annex 1 to this doctoral thesis)**

**Všetečka J.,** Novák F., Hvížďalová K. (2018) Experimental determination of antimatter - part 1:

laboratory studies. Journal of Total Science. 1:1-10

JV participated in the design of the study, independently carried out the laboratory experiments described in the thesis, prepared the draft manuscript and finalized the text after receiving comments from the co-authors.

**Article 2 (Annex 2 to this doctoral thesis)**

Novák F., **Všetečka J.,** Ostrá M. (2019) Observations confirming antimatter in our garden. Journal of Total Science. 1:11-20

JV evaluated the data from data collected in the field, interpreted the results, prepared documents for publication and participated in the writing process.

**Article 3 (Annex 3 to this doctoral thesis)**

**Všetečka J.,** Hvížďalová K., Nováčková A., Ostrá M. (manuscript in preparation) Novel approaches in determination of antimatter using UV and echolocation.