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REQUEST FOR APPROVAL OF THE DOCTORAL THESIS TOPIC

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| **Personal information** | |
| Title, name and surname |  |
| Study programme implementer | Department of Physics, University of Rijeka |
| Title of study programme | Doctoral Study in Physics |
| ID number (stated in Index) |  |
| E-mail |  |

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| **PROPOSED TOPIC** |
| * 1. Croatian title |
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| * 1. English title |
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| * 1. Field/branch |
| Physics / Choose an item. |
| 1.4. Title, date and location of the seminar in which topic was presented (obligatory before submitting the thesis topic proposal) |
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| **SUPERVISOR/CO-SUPERVISOR** | | |
| 1. Supervisor/s | | |
| Title, name and surname | Institution and country | E-mail |
|  |  |  |
|  |  |  |
| 1. Co-supervisor | | |
| Title, name and surname | Institution and country | E-mail |
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| **TOPIC OUTLINE** | | | |
| * 1. Summary in Croatian   *(no more than 1000 characters with spaces)* | | | |
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| * 1. Summary in English   *(no more than 1000 characters with spaces)* | | | |
|  | | | |
| * 1. Introduction and overview of previous research   *(suggested length: 7000 characters with spaces)* | | | |
|  | | | |
| * 1. Research aim and research hypotheses   *(suggested length: 700 characters with spaces)* | | | |
|  | | | |
| * 1. Materials, methodology and research plan   *(suggested length: 6500 characters with spaces)* | | | |
|  | | | |
| * 1. Expected scientific contribution of the proposed research   *(suggested length: 500 characters with spaces)* | | | |
|  | | | |
| * 1. References   *(no more than 30 references)* | | | |
|  | | | |
| * 1. Proposed research funding sources | | | |
| Type of funding | Project name | Project leader | Signature |
| National funding |  |  |  |
| International funding |  |  |  |
| Other project types |  |  |  |
| Self-funding |  | | |
| * 1. Ethics committee meeting at which the research proposal was approved   *(if applicable)* | | | |
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| **CONSENT OF THE SUPERVISOR WITH THE TOPIC APPROVAL REQUEST** |
| I hereby declare that I agree with the proposed doctoral thesis topic.  Signature  (supervisor/supervisors)  Signature  (co-supervisor) |

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| **STATEMENT** |
| I hereby declare that I have not submitted the same doctoral thesis topic at any other university.  Signature  (first and last name of the doctoral candidate)  Rijeka, dd/mm/yyyy |

**Presentation of the Doctoral Thesis Topic**

(Instructions for organising doctoral thesis topic defence presentation. Please remove before submitting the Request.)

**Introduction: overview of previous research**

1. In the Introduction, give a brief overview of State of the art of the research area related to the topic of the doctoral thesis.
2. Name and briefly describe the most important findings.
3. Name the research groups worldwide and cite their most important published papers (including review papers).
4. Refer to open issues/questions that are closely related to the topic of the doctoral thesis.

**Research aims and methodology**

1. Which are the open issues aimed to be studied study within the proposed doctoral topic.
2. State the particular objectives of the doctoral thesis research.
3. Describe methods (theoretical calculations and/or experimental techniques) with an explanation of why the chosen methods are the best for solving the chosen issues; list the methods you do not have at hand, but think would be even better or complementary in solving these problems.
4. Name research papers/groups dealing with the same or very similar issues. What are their achievements?

**Research plan**

1. Briefly describe the research already conducted for the doctoral thesis and if applicable, the results obtained; give a brief interpretation; describe the research in progress and plans yet to be accomplished.