Information form of a participant in the competition for Associate Professor (0.50) at St Petersburg State University

Full name **TAIOLI SIMONE**

Academic degree **Dr. Mult. (2 PhDs in Physics and Nuclear Engineering)**

Academic title SENIOR RESEARCHER **(Equivalent to Associate Professor)**

Academic work experience 20 years

- Number of habilitation to full professor: **2 (in Italy and France)**

Number of publications* (with 2018), indexed in the Russian Science Citation Index___, Web of Science CC 18, Scopus 21, H-index in RSCI_____, Web of Science CC 20, Scopus 21.

Number of research grant applications* submitted to Russian science foundations 0, non-Russian science foundations 20, other external sources ____.

Number of research contracts* (with 2018), participated by the applicant. Please specify the year, period and title of each contract, total funding allocated under each one, and your status (director / participant):

- with Russian science foundations _,

- with non-Russian science foundations

1. January 2022 - December 2025, , Project acronym: MIMOSA € 2,896,705, 4D Microscopy of biological materials by short pulse terahertz sources, PRINCIPAL INVESTIGATOR - granted by the EUROPEAN COMMUNITY under the HORIZON-EIC-2021-PATHFINDEROPEN-01 funding scheme.

2. January 2021 - December 2024, , Project acronym: **PANDORA** € 3,500,000 *Plasma for Astrophysics, Nuclear Decays Observation and Radiation for Archaeometry* **CO-PRINCIPAL INVESTIGATOR** - granted by the National Institute for Nuclear Physics (INFN)

3. November 2020 – October 2023, Project acronym: **QUICHE** € 66,000 *QUantum SensIng TeChnology for Fundamental PHysics Experiments* **CO-PRINCIPAL INVESTIGATOR** - granted by the Q@TN consortium

4. November 2020 – October 2023, Project acronym: **NADIA** € 66,000 *Quantum sensing with laser-synthesized nano-diamond NV color centers* **CO-PRINCIPAL INVESTIGATOR** - granted by the Q@TN consortium

5. November 2019 – October 2022, Project acronym: **ML Q-FORGE** : € 66,000 *Machine Learning techniques FOR Quantum Gate Engineering* **CO-PRINCIPAL INVESTIGATOR** - granted by the Q@TN consortium

6. November 2019 – October 2021, Project acronym: **NANOCATER** : € 66,000 *High-Z ceramic oxide nanosystems for mediated proton cancer therapy* **CO-PRINCIPAL INVESTIGATOR** - granted by the Caritro Foundation

7. July 2018 – August 2021, Project acronym: ARTIQS : € 240,000 *ARTificial Intelligence for Quantum Systems* **CO-PRINCIPAL INVESTIGATOR** - granted by the Q@TN consortium____

Experience of research advising and consulting*(with 2018):

- number of dissertations: PhD candidate's **2 (undergoing)**, Phd thesis supervised **2 (accomplished, both were with "Sealing of Excellence")**, master's students **2,** Postdoctoral students **3**

Experience in teaching methodology**(with 2018): - number of developed and implemented courses: **5 (2 @ Peter the Great St. Petersburg Polytechnic University in the last two academic years) in physics** - number of textbooks and learner's guides, edited and finalised for publication **0**

Any other information provided at the candidate's initiative_____

Decision of the Personnel Qualification Board _____

Results of the voting of the Academic Council of the SPbU academic institute / SPbU faculty (Academic Councils of the SPbU academic institutes / SPbU faculties

* for the period specified in the call for applications