# **CURRICULUM VITAE**

### PERSONAL INFORMATION

Surname and First name:	Malyshkin Yury
Date of birth:	22.07.1988

#### **o** EDUCATION

- 2014 PhD, thesis title: "*Modeling of neutron production and transport in fissile spallation targets*", Frankfurt Institute for Advanced Studies (FIAS), Goethe University Frankfurt, Germany
- 2011 Diploma, thesis title: "Simulation of thunderstorm neutron generation and transport in the atmosphere up to altitude of 500 km", Faculty of Physics of Lomonosov Moscow State University (MSU), Russia

#### **o** CURRENT POSITION

from 2017 PostDoc (INFN post-doctoral fellowship), National Institute for Nuclear Physics (INFN), Roma Tre University, Italy

#### **o PREVIOUS POSITIONS**

- 2014-2017 PostDoc (FONDECYT fellowship), Pontifical Catholic University of Chile (UC), Chile
- 2008-2019 Research Assistant Junior Researcher Researcher, Institute for Nuclear Research of the Russian Academy of Sciences (INR RAS), Russia

#### 0 AWARDS

- 2014 Best Presentation Award of the FIGSS Seminar at Winter Semester 2013/2014, FIAS, Germany
- 2010 M. Markov scholarship for students, INR RAS, Russia

### **o** MAJOR COLLABORATIONS

2015-present JUNO (Jiangmen Underground Neutrino Observatory). Neutrino oscillation studies, software development, Monte Carlo simulations, reconstruction.
2015-2017 Daya Bay (Daya Bay Reactor Neutrino Experiment). Data processing and sterile neutrino analysis.
2014-present SAGE (Soviet-American Gallium Experiment). Solar neutrino flux analysis, designing of neutron spectrometer.
2014-present BEST (Baksan Experiment on Sterile Neutrino). Precision measurement of source activity.

### 0 LANGUAGES

Russian (native), English (advanced), Spanish (intermediate), Italian (basic), German (basic)

## LIST OF SELECTED PUBLICATIONS

*F.P. An et al. (Daya Bay collaboration),* **Measurement of electron antineutrino oscillation based on 1230 days of operation of the Daya Bay experiment**, Physical Review D 95, 072006 (2017).

P. Adamson et al. (Daya Bay and MINOS collaborations), Limits on Active to Sterile Neutrino Oscillations from Disappearance Searches in the MINOS, Daya Bay, and Bugey-3 Experiments, Physical Review Letters 117, 151801 (2016).

*D.N. Abdurashitov, Yu.M. Malyshkin, V.L. Matushko, B. Suerfu,* **Response of a proportional counter to** <sup>37</sup>**Ar and** <sup>71</sup>**Ge: Measured spectra versus Geant4 simulation,** Nuclear Instruments and Methods B, 375, 5-9 (2016).

B.T. Cleveland, V.N. Gavrin, V.V. Gorbachev, T.V. Ibragimova, T.V. Knodel, Y. Malyshkin, I.N. Mirmov, *E.P. Veretenkin*, Use of enriched isotopes to measure efficiency of chemical extraction in the SAGE solar neutrino experiment, International Journal of Mass Spectrometry, Vol. 392, 41-44 (2015).

*Y. Malyshkin, I. Pshenichnov, I. Mishustin, W. Greiner.* **Synthesis of neutron-rich transuranic nuclei in fissile spallation targets,** Nuclear Instruments and Methods B, 349, 133-140 (2015).

A.V. Grigoriev, O.R. Grigoryan, A. Drozdov, Yu.M. Malyshkin, Yu.V. Popov, E.A. Mareev, D. Iudin. Thunderstorm neutrons in near space: analyses and numerical simulation, Journal of Geophysical Research, 115, A00E52 (2010).