Michael (Misha, Mykhailo) Rashkovetskyi

PhD student in astrophysics Office A-109 at 60 Garden St., Cambridge, MA, 02138 September 2, 2021 mrashkovetskyi@cfa.harvard.edu https://rashkovetsky.im

Fields of interest

Cosmology, plasma and high energy astrophysics; quantum field theory.

Education

Harvard University

Ph.D. in Astronomy

Cambridge, Massachusetts, US

2020 - 2026

- Center for Astrophysics | Harvard & Smithsonian
- Advisor: Prof. Daniel Eisenstein

Tel Aviv University

B.Sc. in Physics, Summa Cum Laude (GPA: 98/100)

Tel Aviv-Yafo, Israel

2019 - 2020

- Raymond & Beverly Sackler School of Physics & Astronomy
- Advisor: Dr. Omer Bromberg

Moscow Institute of Physics and Technology

B.Sc. in Physics, unfinished

Dolgoprudny, Russia

2015 - 2018

- Department of General and Applied Physics
- Advisor: Prof. Vasily Beskin

Richelieu Lyceum

High school, specialization in physics

Odesa, Ukraine 2010 – 2015

Research topics and publications

- Inhomogeneous recombination relieving Hubble tension
 - Michael Rashkovetskyi, Julian B. Muñoz, Daniel J. Eisenstein, and Cora Dvorkin. Small-scale Clumping at Recombination and the Hubble Tension. arXiv e-prints, art. arXiv:2108.02747, August 2021
- The dynamics of highly magnetized jets propagating in the medium
- Orthogonal radiopulsars and their statistics
 - E. M. Novoselov, V. S. Beskin, A. K. Galishnikova, M. M. Rashkovetskyi, and A. V. Biryukov. Orthogonal pulsars as a key test for pulsar evolution. MNRAS, 494(3):3899–3911, April 2020. doi: 10.1093/mnras/staa904
- Pulsar losses mechanisms
 - V. S. Beskin, A. K. Galishnikova, E. M. Novoselov, A. A. Philippov, and M. M. Rashkovetskyi. So how do radio pulsars slow-down? In *Journal of Physics Conference Series*, volume 932, page 012012, December 2017. doi: 10.1088/1742-6596/932/1/012012

- Pulsar radiation propagation
 - H. L. Hakobyan, A. A. Philippov, V. S. Beskin, A. K. Galishnikova, E. M. Novoselov, and M. M. Rashkovetskyi. On the Light-Curve Anomalies of Radio Pulsars. In *Astronomical Society of the Pacific Conference Series*, volume 515, page 295, August 2018
 - H. L. Hakobyan, A. A. Philippov, V. S. Beskin, A. K. Galishnikova, E. M. Novoselov, and M. M. Rashkovetskyi. On the light-curve anomalies of radio pulsars. In *Journal of Physics Conference Series*, volume 932, page 012018, December 2017. doi: 10.1088/1742-6596/932/1/012018

Schools, conferences and practices

CMB-S4 Summer Meeting online CMB-S4 Collaboration August 9-13, 2021 CMB-S4 Spring Meeting online CMB-S4 Collaboration March 8-12, 2021 15th School of Modern Astrophysics Dolgoprudny, Russia Moscow Insitute of Physics and Technology July 1-12, 2019 Physics of Neutron Stars - 2017 Saint-Petersburg, Russia Ioffe Institute, Sternberg Astronomical Institute July 10-14, 2017 13th School of Modern Astrophysics Dolgoprudny, Russia Moscow Insitute of Physics and Technology July 3-21, 2017 International School of Subnuclear Physics - 2017 Erice, Italy "Ettore Majorana" Foundation and Centre for Scientific Culture June 14-23, 2017 International school on particles, fields and strings Moscow, Russia National Research University "High School of Economics" April 17-24, 2017 Astronomical practice Nizhniy Arkhyz, Russia Special Astrophysical Observatory June 25 - July 2, 2016

Awards, grants and honors

Languages

• Russian: mother tongue

Ukrainian: fluent English: advanced Hebrew: advanced

• German: intermediate