Ondřej Kubů

Address: Calle Imperial 3, 3C, 28012 Madrid
Phone: +34 641 20 62 78 **Email:** ondrej.kubu@icmat.es
ORCID: 0000-0001-7463-5680, **Web:** https://www.researchgate.net/profile/Ondrej-Kubu-2

SUMMARY

ICMAT Severo Ochoa Postdoc researching (super)integrable systems and Haantjes algebras, with 8 peer-reviewed publications (all in impacted journals) and 1 preprint under review. International research experience at ICMAT/UCM Madrid and Université de Montréal. Proficient in English (C1-C2), advanced in German (B2-C1).

PERSONAL INFORMATION

Surname: Kubů **Given name:** Ondřej
Date of birth: October 11, 1994
Place of birth: Pelhřimov, Czech Republic
Nationality: Czech **Citizenship**: Czech Republic

AWARDS

Josef Hlávka Award for the best students and graduates of public universities in Prague 2023
Dean's Award for the 2nd best Master Thesis 2021
Milan Odehnal Award 2024 – honorable mention
Rector's Award for Excellent Doctoral Thesis 2025

EMPLOYMENT

Dec 2024 – Nov 2026

Postdoc Severo Ochoa, ICMAT, Madrid, Spain**.** Research on Haantjes algebras for separation of variables of (super)integrable systems.
Supervisor Piergiulio Tempesta

Sep 2024 – Nov 2024

Research Associate, Faculty of Nuclear Sciences and Physical Engineering (FNSPE), Czech Technical University in Prague (CTU)

EDUCATION

2020 - 2024

Ph. D, FNSPE CTU**,** study program: Mathematical Engineering, field of study: Mathematical Physics,
Doctoral Thesis: Integrability and superintegrability in the presence of magnetic fields: separable and nonseparable systems
Supervisor: L. Šnobl, **Co-Supervisor:** A. Marchesiello

2018 - 2020

Master's Degree with Honors (Ing.) at FNSPE CTU,
study program: Mathematical physics,
Diploma Thesis: Integrable and superintegrable systems of cylindrical type in magnetic fields
Supervisor: L. Šnobl, **Consultant:** P. Winternitz

2015 - 2018

Bachelor's Degree with Honors at FNSPE CTU, study program: Mathematical Engineering, field of study: Mathematical physics,
Bachelor Thesis: Symmetries of superintegrable systems
Supervisor: L. Šnobl

INTERNATIONAL EXPERIENCE

Spring 2023 — **ERASMUS+ research exchange** at Facultad de Ciencias Físicas, Universidad Complutense de Madrid, **Supervisor**: P. Tempesta

Fall 2019 — **ERASMUS+ research exchange** at Faculté des arts et des sciences, Département de mathématiques et de statistique, Université de Montréal, **Supervisor**: P. Winternitz

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TEACHING EXPERIENCE

2021 - 2024 — **Part-time assistant lecturer** at Department of Physics, FNSPE CTU. Teaching seminars - Theoretical Physics 2, Lie Algebras and Groups, Geometrical Methods in Physics 1 (GMP1). Exercises and consultations for ERASMUS+ students on GMP1.

SKILLS

Mother tongue: Czech
Languages: English C1-C2, German B2/C1, French B2, Spanish A2
Academic software: Maple, LaTeX

WoS PROFILE

20 citations without self-citations, 4 peer reviews for J. Phys. A, h-index 3

PEER REVIEWED JOURNAL ARTICLES

1. O. Kubů, D. Reyes, P. Tempesta and G. Tondo. Hamiltonian integrable systems in a magnetic field and symplectic-Haantjes geometry, *Proc. R. Soc. A,* **480** (2024) 20240076
2. O. Kubů, A. Marchesiello and L. Šnobl. Integrable systems with velocity-dependent potentials: generalized parabolic cylindrical case, *J. Phys. A: Math. Theor.*, **57** (2024) 235203
3. M. F. Hoque, O. Kubů, A. Marchesiello and L. Šnobl. New classes of quadratically integrable systems with velocity dependent potentials: non-subgroup type cases, *Eur. Phys. J. Plus,* **138** (2023) 845
4. O. Kubů and L. Šnobl. Cylindrical first-order superintegrability with complex magnetic fields, *J. Math. Phys.,* **64** (2023) 062101
5. O. Kubů, A. Marchesiello and L. Šnobl. New classes of quadratically integrable systems in magnetic fields: The generalized cylindrical and spherical cases, *Ann. Phys.,* **451** (2023) 169264
6. O. Kubů, A. Marchesiello and L. Šnobl. Superintegrability of separable systems with magnetic field: the cylindrical case, *J. Phys. A: Math. Theor.,* **54** (2021) 425204
7. S. Bertrand, O. Kubů and L. Šnobl. On superintegrability of 3D axially-symmetric non-subgroup-type systems with magnetic fields, *J. Phys. A: Math. Theor.,* **54** (2021) 015201
8. O. Kubů and L. Šnobl. Superintegrability and time-dependent integrals. *Archivum mathematicum,* **55** (2019) 309–318

PEER REVIEWED CONFERENCE PROCEEDINGS

1. O. Kubů and L. Šnobl. Quantum cylindrical integrability in magnetic fields, SciPost Phys. Proc. **14**, 032 (2023), Proceedings of 34th International Colloquium on Group Theoretical Methods in Physics, Strasbourg

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PREPRINT

1. O. Kubů and P. Tempesta. Stäckel and Eisenhart lifts, Haantjes geometry and Gravitation, under review. arXiv:2509.19950 (2025)

IN PREPARATION

1. O. Kubů and D. Latini. Separation of variables for generalized Zernike system, in preparation