

Ing. Vít Jakubský PhD., DSc.

Academic grades

- 02/2023 *DSc. (Research Professor)* awarded by Czech Academy of Sciences
- 09/2003 - 10/2006 *Ph.D., mathematical physics*
CTU in Prague, Faculty of Nuclear Science and Physical Engineering
& Nuclear Physics Institute ASCR in Řež
Doctoral Thesis: *Pseudo-Hermitian Quantum Mechanics*
- 09/1998 - 06/2003 *Ing. (equivalent of M.S.), mathematical physics*
CTU in Prague, Faculty of Nuclear Science and Physical Engineering
Diploma Thesis: *Study of Winternitzian Models*

Employment record

- 01/2011 - present, Scientist, Nuclear Physics Institute of the CAS, Řež, Czech Republic
- 11/2009 - 12/2010 Post-doc fellowship, Doppler Institute & Nuclear Physics Institute of the CAS, Řež, Czech Republic
- 04/2007 - 10/2009 Post-doc fellowship, Department of Physics, University of Santiago de Chile, Santiago, Chile
- 11/2006 - 03/2007 Post-doc fellowship, Nuclear Physics Institute of the CAS, Řež, Czech Republic

Responsible researcher of the following research projects

- 01/2019 - 12/2021 “Analysis of Dirac materials with the methods of mathematical physics,”
GAČR grant no. GA19-07117S
- 01/2015 - 12/2017 “Analysis of quantum systems described by low-dimensional Dirac equation,”
GAČR grant no. GJ15-07674Y
- 01/2011 - 12/2013 “Hidden nonlinear symmetries and supersymmetry in quantum systems,”
GAČR grant no. P203-11-P038
- 11/2007 - 11/2009 “Non-linear symmetries and supersymmetry,”
Fondecyt grant no. 3085013, Chile

Awards and Honours

- 2012 Premium of Otto Wichterle for excellent young scientists, the Academy of Sciences of the Czech Republic

Research impact (by WoS)

- Publications 46, citations 720 (624 without self-citations), H-Index 16

Organization of scientific meetings

- August 28 - 31, 2023 *Analytic and algebraic methods in physics XX*, Prague (Chair)
- September 6 - 9, 2022 *Analytic and algebraic methods in physics XIX*, Prague (Chair)
- September 1 - 3, 2021 *Analytic and algebraic methods in physics XVIII*, Prague (Chair)
- September 10 - 13, 2019 *Analytic and algebraic methods in physics XVI*, Prague (Chair)
- September 14 - 18, 2015 *27th Indian-Summer School on Graphene - the Bridge between Low- and High-Energy Physics*, Prague (Chair)

Supervision of students, postdocs

- September 2022 - present Petr Červenka, bachelor thesis titled "Solvable models described by one-dimensional Dirac equation and their application in physics of graphene" successfully defended in September 2023
- May 2021 - February 2023 Dr. Kevin Zelaya, post-doc
- December 2020 - June 2021 Miguel Castillo-Celeita, PhD student from Cinvestav (Mexico) visiting me in Řež for six months

Leadership qualities (summary)

- PI of 4 successfully finished research projects (3 founded by GAČR, 1 founded by FONDECYT, Chile)
- organization of 4 international conferences in the role of the principal organizer (chair)
- effective supervision of a postdoc and of a PhD student (Kevin Zelaya - 4 paper published in Q1 and Q2 journals, M.Castillo-Celeita - 3 papers published in Q1 and Q2 journals)
- supervision of a student (bachelor thesis)