# Jindřich Kolorenč

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## Professional experience

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| 2020 – | head of the Department of Condensed Matter Theory, Institute of Physics, Czech Academy of Sciences, Prague |
| 2011 – | research scientist, Institute of Physics, Czech Academy of Sciences, Prague |
| 2009 – 2011 | Alexander von Humboldt postdoctoral fellow, Universität Hamburg, Germany |
| 2006 – 2009 | postdoctoral fellow, North Carolina State University, Raleigh, USA |
| 2004 – 2005 | postdoctoral fellow, Institute of Physics, Czech Academy of Sciences, Prague |

## Education

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| 2004 | Ph.D., Faculty of Mathematics and Physics, Charles University jointly with the Institute of Physics, Czech Academy of Sciences |
| 2000 | Mgr. (MS equivalent), Faculty of Mathematics and Physics, Charles University |

## Research topics

condensed matter theory; physical properties of solids derived from their electronic structure (using first-principles computational methods as well as simplified models); manifestations of strong electron–electron correlations; magnetism at the nanoscale; theory of x-ray spectroscopies; theory of inelastic electron tunneling in scanning tunneling spectroscopy

## Results and achievements

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| 51 | publications in international research journals, including 1 × Nature Nanotech., 1 × Nature Commun., 1 × Phys. Rev. Lett., 3 × ACS Nano, 2 × Rep. Prog. Phys. |
| 972 | citations, h-index 18 (according to Web of Science, May 2023) |
| 10 | invited talks at international conferences and workshops (SCES 2014 & 2017, 61st AVS Symposium 2014, MRS Spring Meeting 2018 & 2022) |

## Awards

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| 2016 | The Neuron Award for Promising Young Scientists (Neuron Endowment Fund) |
| 2011 | Otto Wichterle Award (Czech Academy of Sciences) |
| 2009 | Alexander von Humboldt Research Fellowship for Postdoctoral Researchers |

## Organization of international conferences and workshops

- co-organizer of the symposium *Expanding the Frontiers of Actinide Materials Science Through Experiment and Theory* at the MRS Spring Meeting, 2020
- co-organizer of $\Psi_k$ workshop *Theory Meets Experiment in Low-Dimensional Structures with Correlated Electrons*, Prague, July 1 – 4, 2019
- co-organizer of $\Psi_k$ workshop *Strong Electron-Correlation Effects in Complex d- and f-based Magnetic Materials for Technological Applications*, Prague, June 30 – July 2, 2014