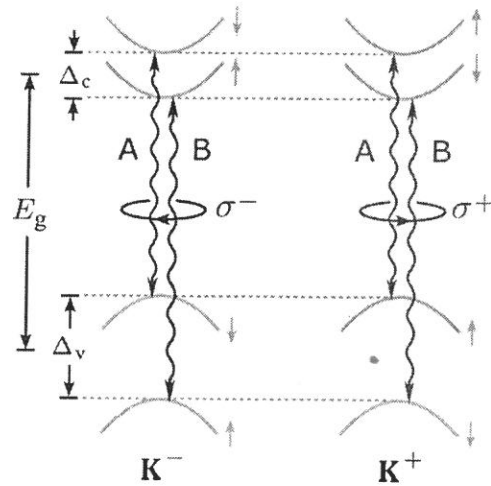# Study Ph.D. in theoretical condensed matter/nano physics in Prague



We are a group of theoretical physicists at the Department of Condensed Matter Theory of Charles University in Prague offering a range of advanced Ph.D. topics in modern condensed matter including:

- Topological and quantum materials including 2D materials.
- Molecular electronics.
- Interaction of matter with ultrashort & ultrastrong light pulses (attosecond optics).
- Machine learning applied to a wide scope of *physical* problems.
- Superconducting nanohybrids.
- Computational studying and design of novel materials.



https://kfkl.mff.cuni.cz/en/theory

If **interested**, don't hesitate to **contact us**!
Head of the theory group: Karel.Carva@mff.cuni.cz

Head of the department: tno@karlov.mff.cuni.cz

We'll be happy to answer your questions.

We are immersed in a vibrant scientific environment of the Faculty of Mathematics and Physics as well as the closely collaborating Czech Academy of Sciences and have many theoretical as well as experimental collaborations "in house", within Prague and the Czech Republic and also abroad (Poland, Germany, Finland, Italy, Sweden, France, Spain, USA ...).

As a **student with us**, you will benefit from:

- *Supportive* and collaborative *environment* of the group, the whole department as well as the Prague physical community.
- *Collaboration* with excellent local *experimental groups* (attosecond optics, STM, 2D materials) as well as theoretical contacts throughout Europe.
- Likely *publications in high-ranking journals* (Phys. Rev. Lett., American Chemical Society journals, various Nature Partner Journals etc.) boosting your future *career.*
- *Scholarship* 11 – 15 thousand CZK (5 CZK ≈ 1 PLN) increasing with the progress of the study *plus* part-time *salary* of another roughly 10 thousand provided by the department or a grant project.
- *Guaranteed* dormitory *accommodation* for 3-6 thousand per month (double/single room).
- Stay in undeniably one of the *most beautiful* and interesting European cities.