



KONWERSATORIUM INSTYTUTU FIZYKI UMCS

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“Magnetically covered NbSe₂ as an experimental platform of chiral superconductivity”

The recent breakthrough in growing 2d van der Waals magnets has opened intriguing possibilities in fabrication of designer topological materials. In particular, magnetically covered NbSe₂ has been identified as a promising candidate for different topological superconducting phases. In my talk I will introduce a model of NbSe₂ covered with a 2d magnet with out-of-plane magnetization and argue that this system is a plausible candidate for chiral superconductivity with Chern number $C=3$. I will also explain how this prediction is supported by recent experimental observations of edge modes on magnetic islands on NbSe₂.

Uprzejmie zapraszam wszystkich pracowników, doktorantów i studentów Instytutu Fizyki.

Dr hab. Ryszard Zdyb, prof. UMCS
Dyrektor IF UMCS