

Blockseminar

Advanced experimental methods in condensed matter and nanophysics

Prof. Klaus Kern, Dr. Soon Jung Jung

Termine 13. July 2020 – 17. July 2020

Programm Vorlesungen + Praktikum (36h), Cr. 5 at **MPI in Stuttgart**

Leistungsnachweis Vortrag (nach Absprache)/ mündliche Prüfung

Sprache Englisch

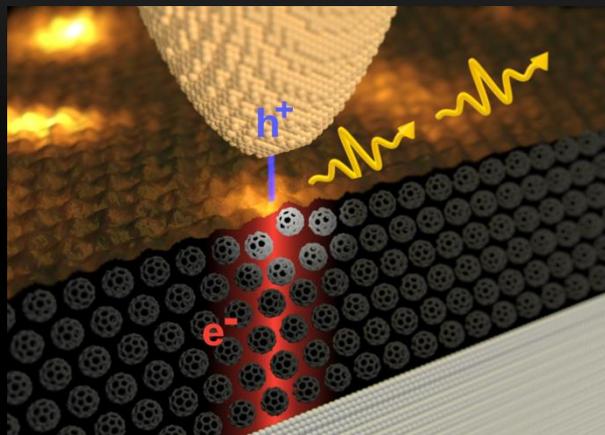
Kontakt: s.jung@fkf.mpg.de



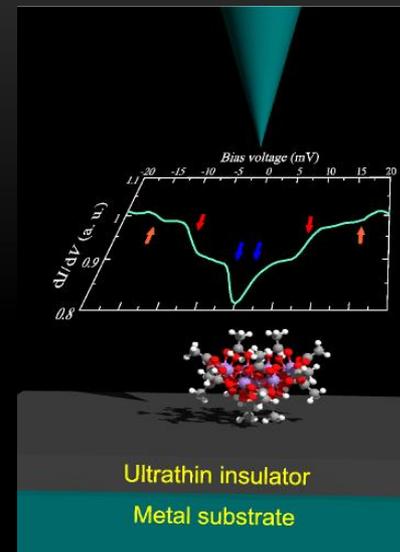
Advanced Experimental Methods

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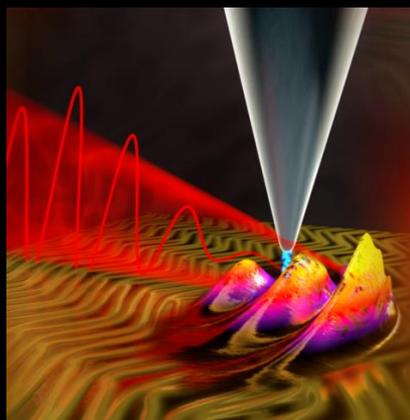
1. Nanostructure Fabrication
2. Ultrahigh Vacuum
3. Matter at Low Temperature
4. Scanning Tunneling Microscopy
5. Atomic Force Microscopy
6. Low Signal Amplification
7. Nanoscale Optics and Plasmonics
8. Laser Applications
9. Electron Spectroscopy
10. Synchrotron-based Spectroscopy



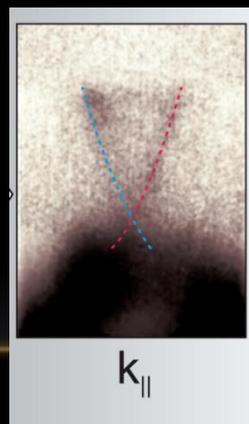
Exciton Dynamics Of
C60-based Single-photon Emitters



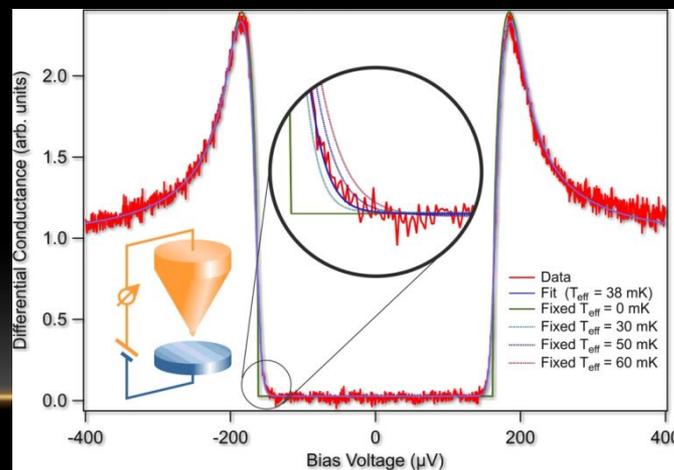
The Quantum Magnetism



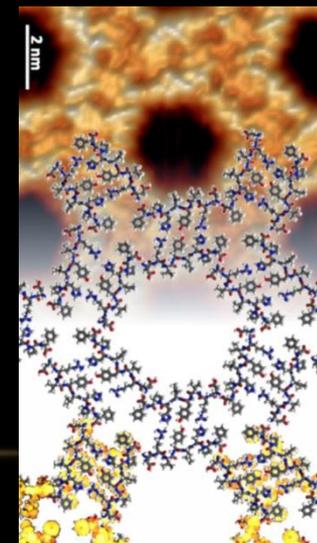
ultrafast microscope



Topological Insulators



Scanning Tunneling Spectroscopy



Nano-bio interface