







Seminarankündigung

Dienstag, 11. Mai 2021 17:00 Uhr

ONLINE via ZOOM

"Raman studies of 2D magnets Crl3 and MnPSe3"

The discovery of 2-dimensional (2D) materials, such as CrI3, that retain magnetic ordering at few-layers and monolayer thicknesses has resulted in a surge of both pure and applied research in 2D magnetism. I will present magneto-Raman spectroscopy studies on multilayered CrI3 and single crystalline MnPSe3. We find a strong sensitivity of phonon excitations to the magnetic order in CrI3 and a hybridization between magnon and phonons in MnPSe3. The strong magnon-phonon coupling reported here highlights the need to understand its effects on spin transport experiments in magnetic vdW materials.

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