



UNIVERSITÄT
LEIPZIG

Physics Colloquium

Tuesday, April 9, 2024 at 16:30

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Quantum Hall Ferromagnetism in Graphene

Graphene has proven to be a remarkable platform for realizing many new symmetry-breaking phenomena in the quantum Hall regime. In addition to the usual spin degree of freedom, graphene also has a two-fold valley degeneracy, which increases the number of possible phases considerably. I will focus on the phases at and near charge neutrality, where there is still uncertainty about the actual phase in real samples. I will show how introducing a more generic model of interactions leads to a very rich phase diagram with many phases that break lattice and magnetic symmetries simultaneously.



Venue: **small lecture hall**. Universität Leipzig, Faculty of Physics and Earth Sciences 04103 Leipzig, Linnéstraße 5.

Everyone is welcome to a reception with coffee, drinks and cookies in the Aula following the talk.

For an up-to-date semester program, sign-up for the physics colloquium mailing list, and subscription to the digital calendars in CalDAV format, head to the colloquiums web page <https://www.physes.uni-leipzig.de/fakultaet/veranstaltungen>

