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Spin transport in graphene - hexagonal boron nitride van der Waals heterostructures

Gurram, Mallikarjuna

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Spin transport
in graphene - hexagonal boron nitride
van der Waals heterostructures

Mallikarjuna Gurram



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Cover art: The sketch represent a prototypical spin-valve device studied in this thesis consisting of graphene (grey hexagonal layer) encapsulated between two hexagonal boron nitride layers (bottom hexagonal layer is in green and top layer is transparent). Orange bars represent ferromagnetic electrodes. The thin bright line denotes spin current flow in graphene layer. An optical image of a real device from Chapter 6 is shown in the background.

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by

Mallikarjuna Gurram

born on 22 April, 1989
in Nalgonda, India

Supervisor

Prof. B.J. van Wees

Co-Supervisor

Dr. I.J. Vera-Marun

Assessment committee

Prof. C. Stampfer

Prof. L.J.A. Koster

Prof. R. Kawakami

dedicated to my family and teachers ...

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