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

Gurram, Mallikarjuna

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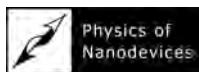
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Spin transport  
in graphene - hexagonal boron nitride  
van der Waals heterostructures

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

## PhD Thesis

to obtain the degree of PhD at the  
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on the authority of the  
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and in accordance with  
the decision by the College of Deans.

This thesis will be defended in public on

Friday 23 March 2018 at 09.00 hours

by

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Prof. L.J.A. Koster

Prof. R. Kawakami

*dedicated to my family and teachers ...*



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