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# **Magnetotransport studies of the single and bilayer two dimensional electron gas in the quantum Hall regime**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor  
aan de Universiteit van Amsterdam  
op gezag van de Rector Magnificus  
prof. dr. D.C. van den Boom  
ten overstaan van een door het college voor promoties  
ingestelde commissie, in het openbaar te verdedigen  
in de Agnietenkapel  
op vrijdag 11 juni 2010, te 10:00 uur

door

**Giovanni Maria Galistu**

geboren te Oldenzaal, Nederland

## **Promotiecommissie**

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The work described in this thesis was carried out at the Van der Waals-Zeeman Institute of the University of Amsterdam, Valckenierstraat 65, 1018 XE Amsterdam, The Netherlands.

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*“Nothing is too wonderful to be true if it be consistent with the laws of nature.”*

(Michael Faraday)

*“ En merk: Wij blijven toch eeuwig leken. Dat doet mij schier het harte breken.”*

(Goethe's Faust)

*To my parents*