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Electromagnetically induced transparency with localized impurity electron spins in a semiconductor

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2018

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Chaubal, A. (2018). *Electromagnetically induced transparency with localized impurity electron spins in a semiconductor*. University of Groningen.

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Acknowledgements

For me it took a little long to finish my thesis. The work presented in this thesis is executed and completed between August 2009 and October 2013 in the group of Physics of Nanodevices, in Zernike Institute for Advanced Materials, at University of Groningen. Further till 2017 the thesis got finalized and got into the shape where it can be defended. When I look back in time, I would say, for me, it was a spectacular journey. Not only the part when I worked on PhD, but also till the time I got this rare opportunity to work in an experimental physics laboratory. Several people and research organizations have contributed directly or indirectly in helping me complete the journey. I would like to express my humble gratitude towards all the contributors.

First and foremost I would like to thank my parents and paternal aunt for their love, patience, and trust. They have played a big role in building up my personality during my upbringing which helps me to blend in with my surrounding. I would like to thank my wife and PhD time girlfriend Mayuri Nalawade for all the love, care, and patience she had with me during all these years of PhD.

My research experience started in 2006 in TIFR, Mumbai, India. I worked in Prof. S. S. Prabhu's Laboratory. I enjoyed working in a laboratory that was the time I realized I want to do PhD. When I was about to join TIFR, I got an offer to work in industry with better remuneration. I took a chance to work in research field instead of working in the industry. I have no regrets taking this decision. It opened a new world of semiconductor industry, possibility to work internationally, and to work in research and high-tech environment. I dared to dream big because of Prof. S. S. Prabhu. I thank Prof. S. S. Prabhu for mentoring me, supporting me, and motivating me. I learned from you how to be humble, expressive, polite and a nice human being.

When I was still working at TIFR, I started looking for PhD positions. I must say it was a tough time to find a position at that time due to economic crises. After getting denied from several universities during economic crises around 2008, I decided for myself to make a last and final application for PhD. I was almost

instructed by Prof. S. S. Prabhu to apply for a position at University of Groningen. Actually, as soon as I wrote application I started looking for jobs in finance sector in India thinking I am not going to make it through the first screening itself. I was surprised to receive an email from Prof. Tamalika Banerjee with an opportunity to have a skype interview. Further, I came here for an interview, got selected, and started working with Prof. Caspar van der Wal. It all happened in such a short period of time that I was still digesting the fact that I am already in Groningen and working on my PhD. I would like to thank Prof. Tamalika Banerjee, Prof. Caspar van der Wal, and Prof. Bart van Wees for giving me an opportunity to discuss my work, and my ambition and of course to offer me a position in their group. During this step Prof. Tamalika Banerjee gave me critical opinions about content of the presentation, timelines to prepare myself for the interview within the group and giving me insight about dutch culture. I express my gratitude towards Prof. Tamalika Banerjee without whom it could have been difficult to face interviews.

I want to say a big thank you to Prof. Caspar van der Wal. You have always helped me and you were always a person I counted on at very critical moments, be it research or personal life situations. You are a nice human being, a proud father, and a successful academician. I want to thank you for a long list of things. On top of that list, you taught me how to be critical, and organized. There are qualities in you which separates you from indifferent supervisors. There is a small kid in your heart which keeps you going with a lot of energy and enthusiasm. It was not always easy to keep up with your enthusiasm and perfection. It caused plenty of rework and some arguments. It helped me getting into pace of dutch way of working. I am benefitting from hard and soft skills I learned during this entire process. I must say I got my first job, just because you insisted I shall learn a few hard skills during last few months of my PhD. I appreciate that you have actively participated in the research and experiments by being physically present in the laboratory from time to time. I must confess that sometimes I was worried when you used to voluntarily spend time in the laboratory doing measurements.

I thank Prof. Bart van Wees for giving me opportunity to work in his group. Your gut feelings and ability to ask critical questions on the loose ends of the topic always impressed me. I was always afraid to hear your statement, " But wait a minute my friend, we have to be very careful here now" this statement always came up as precursor of upcoming question.

Research is fun only when instruments and set-up works. There is a big contribution from a very young and retired boy Bernard Wolf. Bernard I owe

you a lot. You were there for weekend refills, fixing my set-ups, organizing helium on 11th hour notice and I cannot even count where you have covered up for my mistakes in the laboratory. I think I was best at breaking things and Bernard, you used to fix them. We also shared dark humor and crazy jokes, few jokes I don't even want to mention here. I am very happy that you are married now and enjoying a healthy retired life with lot of sports and activities. It is my pleasure to work with you. I thank you Martijn. After Bernard's retirement you kept the same energy and spirit in the group. I must say that you were there exactly when I wanted to finish a lot of measurements in a short time. You kept on soldering and welding detectors for me. Remember a hole in the dipstick? Thanks for fixing that! I want to thank Johan for giving right advice. You also helped me in the cleanroom, specially while handling HF acid. You were strict but that's why safety was always maintained in the FND cleanroom. I had rather a small overlap with Simon. I knew him as a happy and healthy man. Somehow being fit did not go in his favor. May his soul rest in peace. I always had interesting discussions with him specially about cultures, capital punishments, terrorism and so on.

Anna, you are the most efficient secretary I have ever seen. You could bond with all the young nerds in the group and you could handle all the crazy last minute requests they came up with. Of course I was one of them.

I thank Maksym Sladkov for transferring all Laboratory tricks. By the way you introduced me to very sophisticated spirits and they are awesome! I thank you Sergii Denega, you were an angel who never let me get fat by eating chocolates from my drawer. I thank you Javaid Iqbal. Making videos for your defense was a lot of fun. I tried my best to help you even though our topics were different. I thank the three musketeers Sander Onur, Jakko de Jong, Olger Zwier. Guys we had a lot of borrels and dinners together. It was a lot of fun, specially we had similar nerdy jokes and of course "famous sayings". I thank you all because I learned to co-operate, collaborate and brainstorm together. I also learned importance of forwarding the knowledge and skills. I thank you Jorrit Slood, you were an amazing Master student with gut feelings and new experimental ideas. I thank Danny O'Shea for helping me with English. I hope things turn good for you in coming future.

I have special thanks to Thomas Massen, Marta Walasek, Marcos Guimaraes, Lara Sanchez for baring with me for all these years specially during the time when I was off all the stimulants for 3 months. Life becomes much easier when you meet friends who think alike specially when it is about dark humor. Now we

are having equally damaged brains and you are welcome! I thank Csaba Josza, Jean-Paul Adam, Vincent Castel I was afraid that they will be very serious but I think the discussions in our office were hilarious! Thank you Paul Zomer, Joost Flipse, Jasper van den Berg for letting me in dutch culture. You are the first few dutch friends I made. I want to thank Nilesh Awari (You will be a Dr. soon right?), you always stood by me in my tough times. I want to thank Alina Veligura, you are a dependable friend who cared and gave advices on right time to avoid mistakes and make right choices.

I thank FND group members, Frank Bakker, Bram Slachter, Subir Parui, Gaurav Rana, Saurabh Roy and so many others that it is impossible to memorize all names. Please excuse me if you don't find your name here.

I want to say thanks to Anca Dranca Iacoban and Maja Kutlaca, you were my first two friends in Groningen. You always stood by me in my thick and thin. Life in Groningen would have been difficult without you girls. Jana, I know I was a mess to share a house with but I want to give you an award and thank you for baring with me. I thank you Nikola Valacev for giving a shelter during last months in Groningen.

I also express my gratitude towards my friends Chaitanya Bivalkar, and Tanmay Desale, my family Kanchan Nalavade and Priyanka Nalawade, my cousins Mansi, Shaishavi and Shalomi, to support me by being there with my parents. I heavily depend upon them specially when I am only child and living far away from my parents.

I thank Bright Society colleagues Stijn Berden, Leon van Gerwen, Marcel Borst, Carel Verspaget for all the efforts they put to motivate me to finish my journey, and trust they had while offering me a job of a PhD when I was still improving my thesis.

Last but not the least, I thank all my friends and colleagues which made my life in Groningen not only livable but worth to maintain memories of!

Alok Chaubal