

**Towards optical detection of a single electron** Moradi, A.

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# **Curriculum Vitae**

I was born on 11th April 1985 in Shahrood, Iran. I got my bachelor's degree in Optics and Laser Engineering at Malek-Ashtar University of Technology, Isfahan, Iran in 2009. I then started my Master education at the Institute for Advanced Studies in Basic Science, Zanjan, Iran in 2011. Under the supervision of Dr. Akhlaghi I worked on a phase-shifting digital holography-based method to determine the temperature profile around a laser-heated particle. After obtaining my MSc degree in 2014, I entered mandatory military services and was conscripted to serve as a teacher in outlying villages. During this time, I enjoyed teaching Physics and Mathematics to young students. In April 2016, I started my PhD in the group of Prof. dr. Michel Orrit at Leiden University. My research during that period was in the field of single-molecule spectroscopy with the goal of optical detection of a single electron.

#### **List of Publication**

- 1. A. Moradi, Z. Ristanović, M. Orrit, I. Deperasińska, B. Kozankiewicz, *Matrix-induced Linear Stark Effect of Single Dibenzoterrylene Molecules in 2,3-Dibromonaphthalene Crystal, ChemPhysChem 2019*, **20**, 55-61.
- Maja Colautti, Francesco S. Piccioli, Zoran Ristanović, Pietro Lombardi, Amin Moradi, Subhasis Adhikari, Irena Deperasinska, Boleslaw Kozankiewicz, Michel Orrit, and Costanza Toninelli, *Laser-Induced Frequency Tuning of Fourier-Limited Single-Molecule Emitters, ACS Nano* 2020 14 (10), 13584-13592.

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My gratitude should go beyond my PhD period. I am thankful to all the professors and teachers from my masters, bachelors, and high school periods. Mr. Farokhzadeh, your enthusiasm in teaching Physics sparked my interest in Physics. Dr. Akhlaghi, Dr. Reihani and Dr. Hajizade, all the progress I made would not have happened without the knowledge you taught me. I believe our friendship has been always much beyond the student-teacher communication.

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