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Towards optical detection of a single electron

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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.
2. 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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