

Dr. Moritz Brehm

Young Career-Project *Electrically Driven Ge Quantum Dot Lasers towards On-Chip Applications*

Dr. Moritz Brehm is a post-doctoral candidate at the Institute for Semiconductor and Solid-State Physics at the JKU. His dissertation was supervised by Prof. Günther Bauer, "the most important station in my research career thus far, as you can feel the worldwide reputation everywhere but yet he allowed me to have space and certain freedoms."

Dr. Brehm came to the realization that he would like to work in a scientific and academic capacity while working on his Diploma degree thesis: "This marked the beginning of many formative eureka moments. And solving a problem myself, knowing that no one else in the world – at this moment – knows what I know is tremendously motivating!"

In addition to his LIT project, Dr. Brehm also manages an Austrian Science Fund project. He is exploring the mechanisms that take effect when a foreign atom is introduced in to a silicon-germanium quantum dot. This aims to further improve source materials for the laser that is being developed for the LIT project.



Dr. Moritz Brehm Dr. Martyna Grydlik