

Assoz.Univ.-Prof. Dr. Stefan Müllegger

Assoz.Univ.-Prof. Dr. Stefan Müllegger has been researching and teaching at the Solid State Physics Division of the JKU Institute of Semiconductor and Solid State Physics since 2007. Having developed an interest in physics while still at grammar school in Bad Ischl, he went on to study technical physics at the Technical University of Graz, and also gathered experience working in industry.

“I have always enjoyed making the first steps in a field and building something new. Everything that follows has to do with product development, which I find less exciting,” says Müllegger.

Nine years ago, when he began to develop scanning tunnelling microscopy (STM) to enable the identification of single atoms, he and his group were the only ones worldwide doing this kind of research. “We were only two or three people, but ahead of the field, which is something really special.”

In 2013, using his own version of low-temperature STM, he succeeded in conducting the world’s first single-molecule single-spin resonance experiment, the results of which he published in 2014.

Publications:

<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.113.133001>

<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.112.117201>

https://link.springer.com/chapter/10.1007%2F978-3-319-57096-9_9