

## Open Positions

### Bachelor Thesis Positions

III/V-Spectroscopy

- \* [↓](#) Photostrom-Spektroskopie an elektrisch kontaktierten Mikrokavitäten
- \* [↓](#) Winkelaufgelöste Spektroskopie der Polariton-Emission von Quantenfilm-Mikroresonator Dioden
- \* [↓](#) Spektroskopische Analyse elektrisch betriebener Einzelphotonenquellen

### Diploma Thesis Positions

Optoelectronic Materials:

- \* [↓](#) Wachstum und Charakterisierung von positionierten Quantenpunkten
- \* [↓](#) Epitaxie und Charakterisierung von elektrisch betriebenen Quantenfilm Mikroresonatoren und Polariton Laserdioden
- \* [↓](#) Epitaxie und Charakterisierung elektrisch betreibbarer Mikrotürmchen mit adiabatischem Kavitätsdesign
- \* [↓](#) Herstellung und Charakterisierung von Interband-Kaskaden-Lasern auf InAs

III/V Spectroscopy

- \* [↓](#) Chaotic light emission from electrically pumped quantum dot-micropillar lasers
- \* [↓](#) Winkelaufgelöste Spektroskopie der Polariton-Emission von Quantenfilm-Mikroresonator Dioden
- \* [↓](#) Berechnung und Charakterisierung von Quantenpunkt-Solarzellen

We have additional positions (not listed above) open for diploma/master students. If you are interested, please contact one of the group leaders, or a specific PhD who is working in the field you are interested in.

### PhD Positions

At the department for technical physics at Wuerzburg University, we offer four PhD positions (Bat IIa/2):

- The first position is in the field of research and development of semiconductors for optoelectronic devices. We offer several strategies for the growing of semiconductor structures, as well as several methods for processing the devices.
- The second position is in the field of optical spectroscopy of semiconductor nanostructures, structures which were made in our department. We are interested in photon correlation measurements and investigation of quantum dots in high Q microcavities.
- The third position is in the field of low threshold quantum dot - microcavity lasers. The work will focus on the realization of directional, lateral emission from whispering gallery modes (WGM) in micropost resonators with highly optimized cross section and device integration.
- The fourth position is in the field of efficient and compact THz-sources. Based on electrically pumped quantum dot - micropillar lasers THz emission will be realized by difference frequency generation (DFG). The work involves the MBE-growth, processing, optimization and characterization of the THz sources.

For either position you need substantial knowledge of the field of semiconductors. Inquiries should be sent to:

PD. Dr. Lukas Worschech, Technische Physik, Universität Würzburg, Am Hubland, D-97074 Würzburg.

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[http://www.physik.uni-wuerzburg.de/institute\\_einrichtungen/physikalisches\\_institut/technische\\_physik/tep/open\\_positions/](http://www.physik.uni-wuerzburg.de/institute_einrichtungen/physikalisches_institut/technische_physik/tep/open_positions/), 24.05.2012