



e-conversion



Seminarankündigung

**Dienstag, 18. Januar 2022
13:00 Uhr**

ONLINE via ZOOM

<https://tum-conf.zoom.us/j/63210679333>

Meeting-ID: 632 1067 9333

Kenncode: 075076

“Towards III-V nanowire devices: From growth and integration to Terahertz photonics”

III-V nanowires combine the superior (opto)electronic properties of III-V materials with the quasi-one dimensional geometry inherent to nanowires. This combination of properties presents new opportunities for electronic and optoelectronic devices incorporating nanowires, such as solar cells, photonics integrated circuits and terahertz photonics. This talk will describe recent and historical advances in the growth, characterisation and integration of nanowires, culminating in the demonstration of novel nanowire-based devices. It will introduce terahertz conductivity spectroscopy as a contact-free tool for probing the electronic properties of nanostructures such as nanowires. It will also introduce new methods of integrating nanowires into (i) multiplexed and (ii) mechanically flexible substrate-free devices.

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