

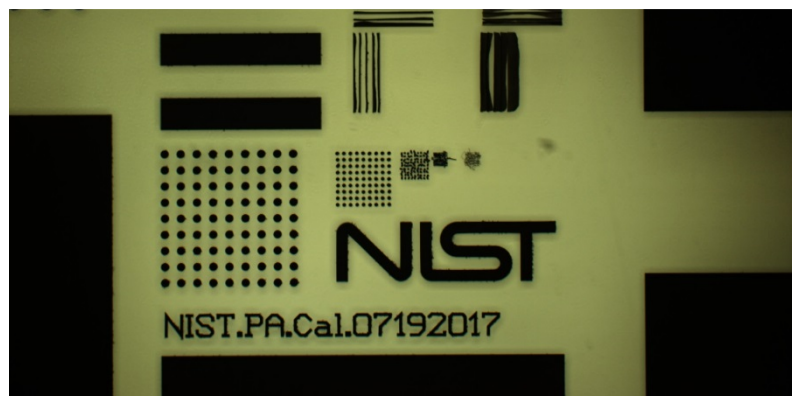
**Freitag, 28. Juni 2019,  
10:00 Uhr, Raum Gö-C\_207**

**Fakultätskolloquium**

**Quantitative and Superresolution  
Photoacoustic Imaging**

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In photoacoustic imaging, photonic energy from a short non-ionizing laser pulse is absorbed and converted into heat, leading to transient thermoelastic expansion and thus wideband ultrasonic energy is produced. The generated ultrasonic is detected by an ultrasonic transducer and then analyzed to produce images.

I will present our recent achievement on the superresolution photoacoustic microscopy beyond the optical diffraction limit in collaboration with California Institute of Technology and on developing resolution targets and fluence phantoms and standards to enable quantitative photoacoustic imaging.