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S E M I N A R
aus
Halbleiterphysik und Nanotechnologie

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"Time-of-flight photoconductivity measurements of organic semiconductors, graphene, and other two-dimensional materials"

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Graphene and other two-dimensional materials exhibit a plethora of exceptional and interesting properties. We are focused to time-of-flight photocurrent responses of layered two-dimensional materials and organic semiconductor nanostructures. Time-of-flight photocurrent - also called transient photoconductivity - is of fundamental interest in materials science and nanoscience and is widely used in (opto-)electronic and photonic devices as well as in micro-electromechanical systems. Here, we present an overview of recent advances in the photoconductivity of organic semiconductors, graphene, and other two-dimensional materials and their polymer composites.