Mr. Mehrdad Shaygan
&
Mrs. Nazli Kheirabi

Pohang University of Science and Technology (POSTECH) South Korea

“Growth and characterization of one and two-dimensional nanostructures”

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13:00 – 14:00
Seminar Room 115
Hallwachsstr. 3 (HAL)

One-dimensional (1-D) nanostructures have been gaining attraction in the research community as ideal systems for exploring novel phenomena at the nanoscale due to their simple synthesis techniques, as well as unique optical, mechanical and electrical properties. Photodetectors based on such nanostructures have rapidly advanced in recent years by integration of various materials and structures. Specially, nanowire photodetectors exhibit numerous opportunities for nanoscale optoelectronics due to their physics and technologies. In the last several years carbon nanosheets as another type of carbon structures triggered the research for unprecedented applications. Carbon nanowalls (CNWs) or carbon nanosheets with their sharp edges and perpendicular to the substrates are distinctive among other carbon structures for particular applications. In this talk we will present the results in growth and characterization of diverse semiconductor nanowires and vertical graphene.