

Abstract Submitted
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Transport and optical measurements on Graphene - hBN heterostructures LEI WANG, CORY DEAN, ANDREA YOUNG, ZHEYUAN CHEN, INANC MERIC, KEN SHEPARD, LOUIS BRUS, PHILIP KIM, JAMES HONE — Placing graphene on hexagonal BN (hBN) substrates has recently been shown to lead to improved device quality. In addition, the planar nature of the h-BN allows for the realization of novel device architectures with high mobility graphene, including dual-gated devices. I will discuss recent transport and optical measurements on such graphene-hBN heterostructures, focusing on high mobility dual gated bilayer graphene, in which the carrier density and the band-gap can be tuned independently.

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