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Title

Negative Differential Conductivity in Bilayer Graphene Controlled by an External Voltage and in the Presence of a Magnetic Field

Source

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Abstract

The current-voltage characteristic of graphene bilayers was obtained in the case of strong electric and magnetic fields. Regions of negative differential conductivity were obtained when the magnetic field was perpendicular to the layers of the bilayer graphene. In addition, the possibility of generating terahertz pulses was discovered in such systems for a sufficiently wide range of interlayer voltage. (20 References).