

School of Physics

Ph.D Defense Session

Title:

Transport properties of advanced two-dimensional materials

Candidate:

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Venue:

Farmanieh Seminar Room

Time:

13:00 pm, January 22, 2015

پنجشنبه، ۲ بهمن ۱۳۹۳

Abstract:

In this talk, we will first start by introducing new advanced two-dimensional materials such as silicene, molybdenum disulphide (MoS_2) and phosphorene and then by reviewing their main transport properties. Then we will move to second part of the talk, focusing on a normal/ferromagnetic/normal molybdenum disulphide junction where the polarization of the *valley* and the *spin* can be inverted by reversing the direction of the exchange field in the ferromagnetic region.

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