

Graphene Induced Magnetic Properties of FM/graphene/FM

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Using the full potential linearized augmented plane wave (FLAPW) method, we have explored the graphene induced magnetic properties of Co/graphene/Ni and Ni/graphene/Ni systems. It has been found that the magnetic exchange interaction between two ferromagnetic layers can be manipulated by changing external carrier types and concentrations. This may provide very useful informa for potential spintronics purposes