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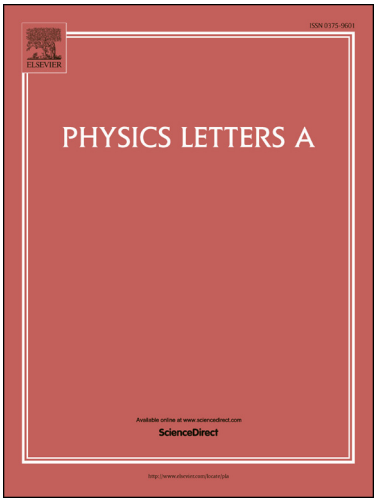


Monte Carlo study of the magnetic properties of a bi-layer decorated graphene structure

N. Tahiri, A. Jabar, L. Bahmad

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## Highlights

- We have analyzed the magnetic properties of a bi-layer decorated graphene structure.
- We have analyzed the ground state phase diagrams of the studied system.
- We have showed the existence of the critical temperature.
- A number of characteristic behaviors are found, such as the occurrence of single hysteresis loops for appropriate values of the system parameters.

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