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Spin transport in graphene - hexagonal boron nitride van der Waals heterostructures

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Propositions

accompanying the dissertation

Spin transport in graphene - hexagonal boron nitride van der Waals heterostructures

Mallikarjuna Gurram

1. Everyone needs a friend like hexagonal boron nitride. No matter what you are (semiconductor or metal, magnetic or nonmagnetic) it will protect you, support you, enrich you and bring the best out of you. (This thesis)
2. Lithographic polymer residues are still the main extrinsic culprits influencing the spin transport in fully encapsulated graphene. (Chapters 5-8)
3. A thin layer of hBN made it possible to allow the fabrication of conventional two dimensional ferromagnetic tunneling electrodes even for fully encapsulated graphene. (This thesis)
4. It is unfair that the astrophysicists and the media are painting a picture in the society that all physics is about stars and galaxies.
5. A possible middle ground between an open access journals and a subscription based journals could be an iTunes-like micro-payment system. It is already making a fortune for the news media outlets.
6. Divisive politics and gossips are adult versions of bullying. For a productive environment, particularly in science, they should be actively identified and curbed.
7. "The scientist is not a person who gives the right answers, he's one who asks the right questions." - Claude Lévi-Strauss
8. For a long time, running a mile distance within 4 minutes was regarded to be physically impossible until one disproved it in 1954.
9. Alcohol mainly serves as a man made solution to a man made problem. For instance, it seems to lower social inhibitions which are the very result of our traditional socialization.
10. "If we are educating children who can read well and compute well but can't relate well, we will have a failed society." - Unknown
11. "The world always makes sense; we just don't understand it." - Adam Robinson