Abstract Submitted
for the MAR13 Meeting of
The American Physical Society

Spin Transport Measurements in Hydrogenated Graphene Devices GAVIN KOON, JAYAKUMAR BALAKRISHNAN, BARBAROS OEZYILMAZ, Department of Physics, National University of Singapore — Graphene with all its extraordinary properties still fall short when it comes to manipulation of electron spins. Chemically modified Graphene has been explored by many to further enhance Graphene properties, tailoring it to suit desired application purposes. Here we study the effects of hydrogenation rate on graphene spin transport, spin relaxation time and length in this defected system. These findings are important for future theoretical and experimental studies on other adatoms modified Graphene.

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Date submitted: 08 Nov 2012 Electronic form version 1.4