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Charge Transport of MoS_2 Supported by Thiol-Decorated Self-Assembled Monolayer DORON NAVEH, VLADA ARTEL, MOSHE KIRSHNER, Dept. of Electrical Engineering, Bar-Ilan University, Ramat-Gan, Israel 52900 — Intrinsic charge transport in MoS_2 supported by thiols was recently reported [1] and was attributed to passivation of sulfur vacancies and suppression of charged impurities from the dielectric substrate. In this talk we will present the transport characteristics of single layer and few-layer MoS_2 on thiol-decorated self-assembled alkyl-siloxane monolayer.

[1] Z. Yu *et al.*, *Towards intrinsic charge transport in monolayer ?molybdenum disulfide by defect and interface engineering* Nature Commun. **5**(2014).

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