

Abstract Submitted
for the MAR16 Meeting of
The American Physical Society

Infrared spectroscopy of vertical heterostructures of graphene and hexagonal boron nitride¹ MARCIN MUCHA-KRUCZYŃSKI, University of Bath, DAVID ABERGEL, NORDITA — We suggest that optical absorption of monolayer and bilayer graphene on hexagonal boron nitride will provide meaningful information about the moiré characteristics. In particular, study of the absorption spectrum as a function of the doping for an almost completely full first miniband will distinguish between various theoretical proposals for the physically realistic interaction. Also, for bilayer graphene, the ability to compare spectra for the opposite signs of the interlayer asymmetry induced by an external electric field might provide additional information about the moiré parameters.

¹This research was funded by EPSRC Grant No. EP/L013010/1 (MM-K), and ERC project DM-321031 (DSL),

David Abergel
NORDITA

Date submitted: 06 Nov 2015

Electronic form version 1.4