

## DAFTAR PUSTAKA

- Akzyanov, R.S., Sboyachkov, A.O., Rozhkov, A. V, Rakhmanov, A.L. and Nori, F., 2014. A A -stacked bilayer graphene in an applied electric field: Tunable antiferromagnetism and coexisting exciton order parameter. 155415, pp.1–8.
- Ananyev, V.O. and Ovchynnikov, M.I., 2017. On the density of states of graphene in the nearest-neighbor approximation. *Condensed Matter Physics*, 20(4), pp.1–4.
- Annett, J.F., 2004. *Superconductivity, superfluids and condensates (Vol. 5)*. Oxford University Press.
- Apinyan, V. and Kopeć, T.K., 2017. Density of states in the bilayer graphene with the excitonic pairing interaction. *European Physical Journal B*, 90(7).
- Alexandrov, A.S., 2003. *Theory of Superconductivity: From Weak to Strong Coupling*. Institute of Physics: Series of Condensed Matter Physics.
- Bistritzer, R. and MacDonald, A.H., 2011. Moiré bands in twisted double-layer graphene. *Proceedings of the National Academy of Sciences*, 108(30), pp.12233-12237.
- Cao, Y., Fatemi, V., Fang, S., Watanabe, K., Taniguchi, T., Kaxiras, E. and Jarillo-Herrero, P., 2018. Unconventional superconductivity in magic-angle graphene superlattices. *Nature*, 556(7699), pp.43-50.
- Carr, S., Fang, S., Jarillo-Herrero, P. and Kaxiras, E., 2018. Pressure dependence of the magic twist angle in graphene superlattices. *Physical Review B*, 98(8), p.085144.
- Castro, E. V., López-Sancho, M.P. and Vozmediano, M.A.H., 2009. Pinning and switching of magnetic moments in bilayer graphene. *New Journal of Physics*, 11, pp.0–9.
- Castro Neto, A.H., Guinea, F., Peres, N.M.R., Novoselov, K.S. and Geim, A.K., 2009. The electronic properties of graphene. *Reviews of Modern Physics*, 81(1), pp.109–162.
- Catarina, G.F.C., 2017. *Twisted bilayer graphene - electronic and optical properties*. Técnico Lisboa.

Gargiulo, F., Yazyev, O. V. 2017. Structural and electronic transformation in lowangle twisted bilayer graphene. *2D Materials*, 5(1), 015019.

Guinea, F., Walet, N. R. (2018). Electrostatic effects, band distortions, and superconductivity in twisted graphene bilayers. *Proceedings of the National Academy of Sciences*, 115(52), 13174-13179.

Kim, K., DaSilva, A., Huang, S., Fallahazad, B., Larentis, S., Taniguchi, T., ... Tutuc, E. (2017). Tunable moiré bands and strong correlations in small-twistangle bilayer graphene. *Proceedings of the National Academy of Sciences*, 114(13), 3364-3369.

de Laissardiere, G.T., Namarvar, O.F., Mayou, D. and Magaud, L., 2016. Electronic properties of asymmetrically doped twisted graphene bilayers. *Physical Review B*, 93(23), p.235135.

Catarina, G.F.C, 2017. Twisted bilayer graphene - electronic and optical properties. Técnico Lisboa.

Leigh, R.G., Phillips, P. and Choy, T.P., 2006. Hidden Charge 2e Boson in Doped Mott Insulators: Field Theory of Motttness. arXiv preprint cond-mat/0612130.

Li, G., Luican, A., Dos Santos, J.L., Neto, A.C., Reina, A., Kong, J. and Andrei, E.Y., 2010. Observation of Van Hove singularities in twisted graphene layers. *Nature Physics*, 6(2), pp.109-113.

Lopes Dos Santos, J.M.B., Peres, N.M.R. and Castro Neto, A.H., 2007. Graphene bilayer with a twist: Electronic structure. *Physical Review Letters*, 99(25), pp.19–22.

Ma, J. J., Wang, Z. Y., Xu, S. G., Gao, Y. X., Zhang, Y. Y., Dai, Q., ... Gao, H. J. 2022. Local Density of States Modulated by Strain in Marginally Twisted Bilayer Graphene. *Chinese Physics Letters*, 39(4), 047403.

Morell, E.S., Correa, J.D., Vargas, P., Pacheco, M. and Barticevic, Z., 2010. Flat bands in slightly twisted bilayer graphene: Tight-binding calculations. *Physical Review B*, 82(12), p.121407.

Novoselov, K.S., Mishchenko, O.A., Carvalho, O.A. and Neto, A.C., 2016. 2D materials and van der Waals heterostructures. *Science*, 353(6298).

Pauling, L., 1960. *The Nature of the Chemical Bond..* (Vol. 260, pp. 3175-3187). Ithaca, NY: Cornell university press.

Petroski, H., 1992. *The pencil: A history of design and circumstance.* Alfred a Knopf Incorporated.

Rakhmanov, A.L., Rozhkov, A. V., Sboyachakov, A.O. and Nori, F., 2012. Instabilities of the AA-stacked graphene bilayer. *Physical Review Letters*, 109(20), pp.1–5.

Roy, B. and Juričić, V., 2019. Unconventional superconductivity in nearly flat bands in twisted bilayer graphene. *Physical Review B*, 99(12), p.121407.

Rozhkov, A. V., Sboyachakov, A.O., Rakhmanov, A.L. and Nori, F., 2016. Electronic properties of graphene-based bilayer systems. *Physics Reports*, [online] 648, pp.1–104. Available at: <<http://dx.doi.org/10.1016/j.physrep.2016.07.003>>.

Sboyachakov, A.O., Rakhmanov, A.L., Rozhkov, A.V. and Nori, F., 2015. Electronic spectrum of twisted bilayer graphene. *Physical Review B*, 92(7), p.075402.

Sherkunov, Y. and Betouras, J.J., 2018. Electronic phases in twisted bilayer graphene at magic angles as a result of Van Hove singularities and interactions. *Physical Review B*, 98(20), p.205151.

Solís-Fernández, P., Bissett, M. and Ago, H., 2017. Synthesis, structure and applications of graphene-based 2D heterostructures. *Chemical Society Reviews*, 46(15), pp.4572-4613.

Tarnopolsky, G., Kruchkov, A.J. and Vishwanath, A., 2019. Origin of magic angles in twisted bilayer graphene. *Physical review letters*, 122(10), p.106405.

Wolf, T.M.R., Lado, J.L., Blatter, G. and Zilberberg, O., 2019. Electrically tunable flat bands and magnetism in twisted bilayer graphene. *Physical review letters*, 123(9), p.096802.