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Substrate effects on a graphene membrane SILVIA VIOLA KUSMINSKIY, DAVID CAMPBELL, ANTONIO CASTRO NETO, Boston University, FRANCISCO GUINEA, Instituto de Ciencia de Materiales de Madrid — We study the effect of the substrate on the configuration of a graphene membrane within elastic theory. We analyze different forms of spatial disorder of the substrate and its coupling to graphene's phonon modes. In-plane and flexural modes of the graphene membrane are taken into account.

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