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Calculations of double-sided coverage of transition metals on graphene TIMOTHY HECHT, BRET HESS, Brigham Young University — We study the properties of transition metal atoms adsorbed in high coverage on graphene using first principles density functional theory. While there have been many studies on single-sided coverage of adatoms on graphene, we focus on coverage of both sides of graphene. We have observed systems with significantly stronger binding with double-sided coverage than systems with only single-sided coverage. We discuss the effect of double-sided coverage on the electronic structure of these systems.

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