

Investigating atomic structure in Transition Metal Halide / Graphene systems

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2D layered transition metal halides have been shown to exhibit unique electronic and magnetic properties[1,2]. When stacked into heterostructures with graphene, these properties can cause strong interactions that lead to interesting phenomena[3]. We investigate these systems with transmission electron microscopy to gain an understanding of the atomic structure of these systems, and attempt to correlate this with other observed phenomena.

References

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- [3] Daniel J. Rizzo, D. N. Basov *et al.* Charge-Transfer Plasmon Polaritons at Graphene/ α -RuCl₃ Interfaces, *Nano Letters* **2020** 20 (12), 8438-8445