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【171】Adsorption of Argon on Graphite

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By means of the ultrafast electronic diffraction (UED) in reflection geometry, we observe argon atoms adsorbed of graphite with atomic resolution. The diffraction patterns of solid argon adsorbed on graphite compared with simulation shows FCC structure in (111) orientation.
Interesting physical phenomena emerge from the experiment as the phase diagram dependence on substrate surface ; the compression of the lattice during lattice growth and warm up ; the ordering of lattice surface before sublimation point during warm up.
This experiment drives us to study the fundamental science of 2D materials.

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