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Adsorption of Tetrafluoromethane on HiPco Purified SWNTs

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Department of Physics Southern Illinois University — We have studied the adsorption behavior of tetrafluoromethane, CF_4 , on purified, single-walled HiPco nanotubes. Isotherms were performed between 100K and 125K. We find that there are two substeps in the first layer data for CF_4 on the SWNTs; results will be compared to previous measurements on this system. Results for the isosteric heat as a function of coverage will also be presented. Long waiting times are necessary to ensure that equilibrium is reached in these experiments. This research supported by National Science Foundation grant # DMR-0089713.

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