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Scanning microscopy study of the assembly and structure of filamentous virus M13 dispersed on graphite CARLOS CRUZ, IBTIHAL MUTAEN, Suffolk University, PRASHANT SHARMA[1], Suffolk University, Nanoscience Research Laboratory — We study the structure and surface binding of the filamentous virus M13 on graphite using AFM and STM in ambient conditions. A simple technique to isolate the virus is developed and the bias-dependent features of tunneling microscopy are studied to provide an estimate of the dielectric properties of a single M13 virus biomolecule. These measurements are used to interpret the topographic images of tunneling microscopy.

[1]Please address all correspondence to this author.

Prashant Sharma
Suffolk University

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