

COLLOQUIUM ANNOUNCEMENT

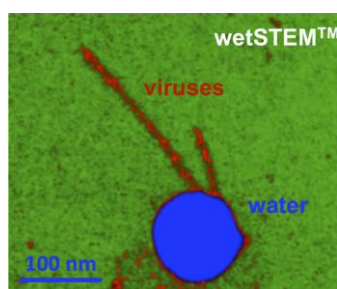
TUESDAY, 14.03.2017
16:00 h ZEMOS 0.17/0.19

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“WATER AND VIRUSES”

The textbook example for self-assembly, Tobacco Mosaic Virus (TMV), is reversibly wetted by water, as shown by AFM and by environmental electron microscopy. Except for ultrathin layers, the water topography is completely compatible with macroscale wetting scenarios. The wetting is accompanied by very unusual structural changes, which have escaped standard characterisation methods. The nearly identical Tomato Mosaic Virus can be transported by clouds and in fog. This prompted us to ask whether viruses can in turn initiate cloud formation by nucleation of ice. Such scenarios are increasingly discussed as alternative to nucleation at inorganic dust particles.



*Environmental electron microscopy of virus particles
at a water nanodroplet on a thin carbon film*

Guests are very welcome!