

On Superspreaders, Aerosols and Masks

Some Physics on Covid

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Physicians deal with patients, i.e. with individuals. An infectious outbreak, however is a collective phenomena and requires a different way of thinking. Concepts can be found in physics.

This talk attempts to clarify some of the concepts of outbreaks. I will talk about probabilities, growth, phase transitions, aerodynamics and the great danger to entirely misjudge multiplicative, nonlinear processes. Finally I will present a strategy, which attempts to eliminate the virus, which in-turn utilizes the multiplicative character of of outbreaks.

The presentation is based on an article Prof. Schneider recently published in in *die ZEIT*, which aims to provide some basic scientific education, while reducing insecurities. The typical audience is the interested public. The speaker stresses the fact, that he is neither virologist nor epidemiologist, but "just" a physicist.

