

THE PHYSICS COLLOQUIUM

Thursday, 20 October 2022, 4:00 p.m.
Nijenborgh 4, Lecture Hall 5115.0317 (Schröderzaal)

Computational compressive imaging

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Optical imaging is indispensable to many scientific disciplines from physics and engineering to chemical and biomedical research. The exponential growth of computing power helps to revolutionize optical microscopy by rethinking both the optical design and the post-processing.

Here I will discuss computational imaging, which is the joint design of the front-end optics (hardware) and signal post-processing (software).

I will show how computational compressive imaging approaches push the boundaries of optical microscopy and provide imaging beyond the diffraction and Nyquist limits in a very simple and compact optical setup.

Join us for coffee starting 3:30 p.m. Refreshments will be served after the lecture.

For more information contact the host: Anastasia Borschevsky (a.borschevsky@rug.nl)

Website: <http://www.rug.nl/research/vsi/colloquia/>