Probing light emission at the nanoscale with cathodoluminescence

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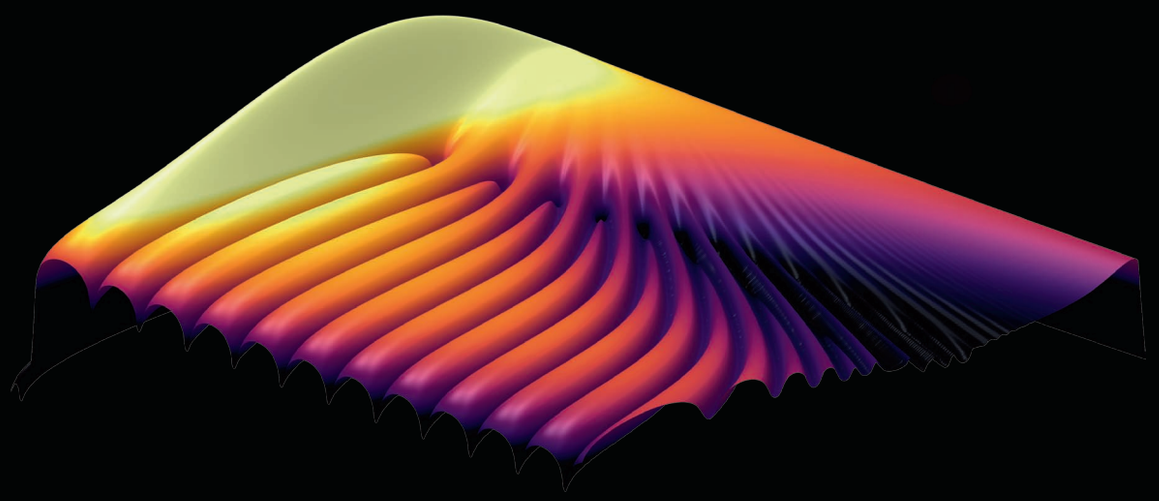

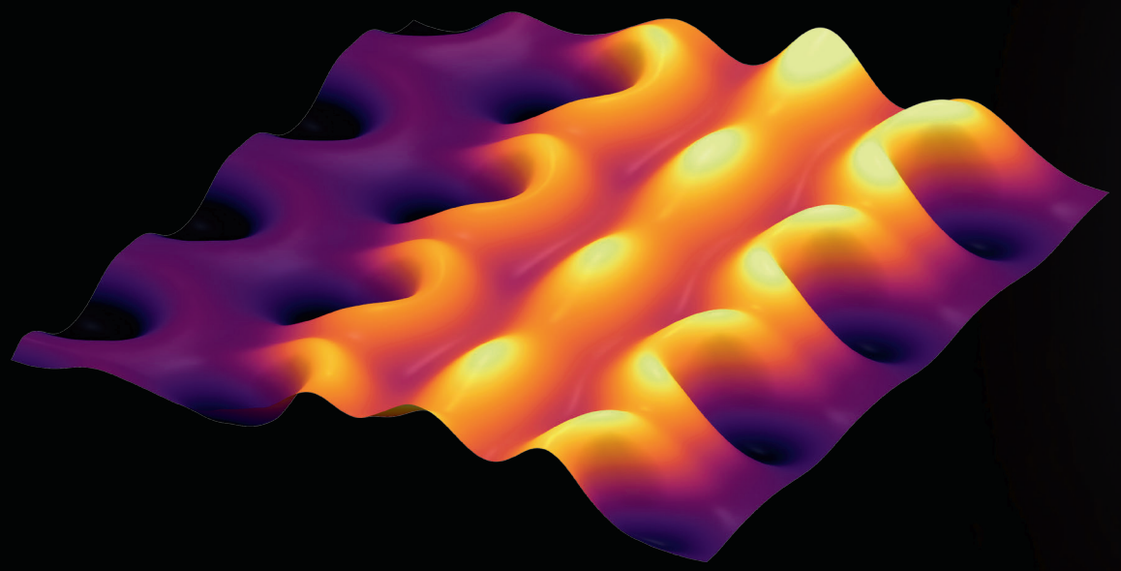

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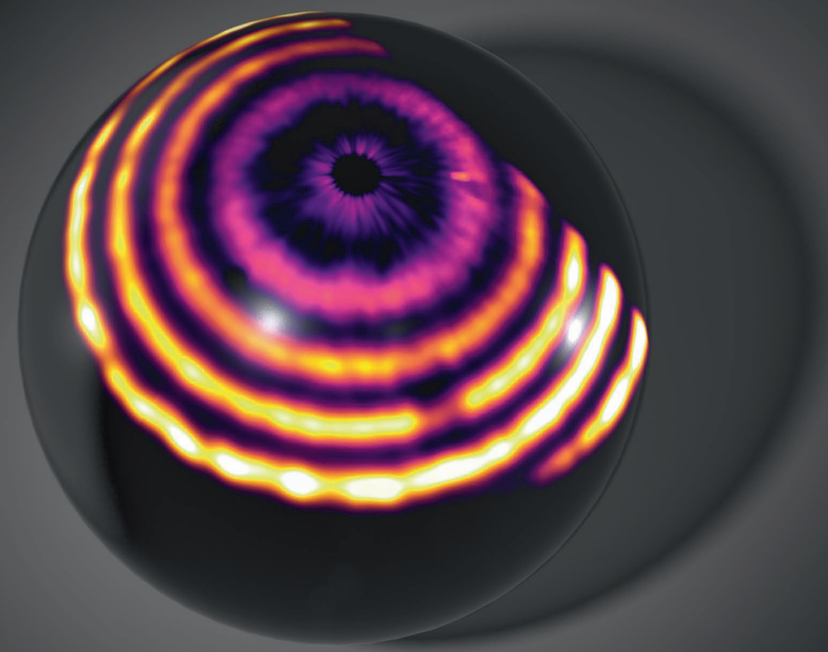

Benjamin J. M. Brenny

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Cover image: The front shows the measured polarized angular emission distribution radiated by a vertical indium phosphide nanowire, with the number of rings dictated by the length of the nanowire (3D design by Henk-Jan Boluijt). The back shows the calculated angle-dependent time evolution of transition radiation emitted by an electron impinging on a metallic surface (top image), and a cathodoluminescence excitation map of a silicon photonic crystal waveguide measured at a free space wavelength of λ_0=1425 nm (bottom image).

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PROBING LIGHT EMISSION AT THE NANOSCALE WITH CATHODOLUMINESCENCE

Meten van lichtemissie op de nanoschaal met kathodeluminescentie

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aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
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ten overstaan van een door het college voor promoties
ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
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door

Benjamin Joseph Maarten Brenny

geboren te Amsterdam

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