

Solvay Colloquium



Professor Sir John Pendry
Imperial College London, UK

Capturing light on the nanoscale

Conventional optics controls light on the scale of roughly a micron – approximately the wavelength of visible light. To control light in the world of nanoscience requires a new understanding in which we look inside the wavelength at the component electric and magnetic fields. Exploiting the new concepts we have designed devices that compress light into less than a square nanometre, thus enhancing the energy density by a factor of a million which opens the way to single molecule sensing and switching light with light – the optical transistor. Finally I shall discuss negative refraction and how it leads to the construction of a lens whose resolution is unlimited by the wavelength of light.

Tuesday 19 June 2018 at 2.00 P.M.

COFFEE AND TEA WILL BE SERVED AT 3.00 P.M. IN FRONT OF THE SOLVAY ROOM

SOLVAY ROOM

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