

Supplementary Materials

Super-resolution imaging with patchy microspheres

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Figure S1. Optical microscopic image of a Blu-ray disc observed under a bright-field reflection microscope through a patchy BaTiO₃ microsphere which has a diameter of 35 μm and is partially coated with 100 nm-thick aluminum thin films.

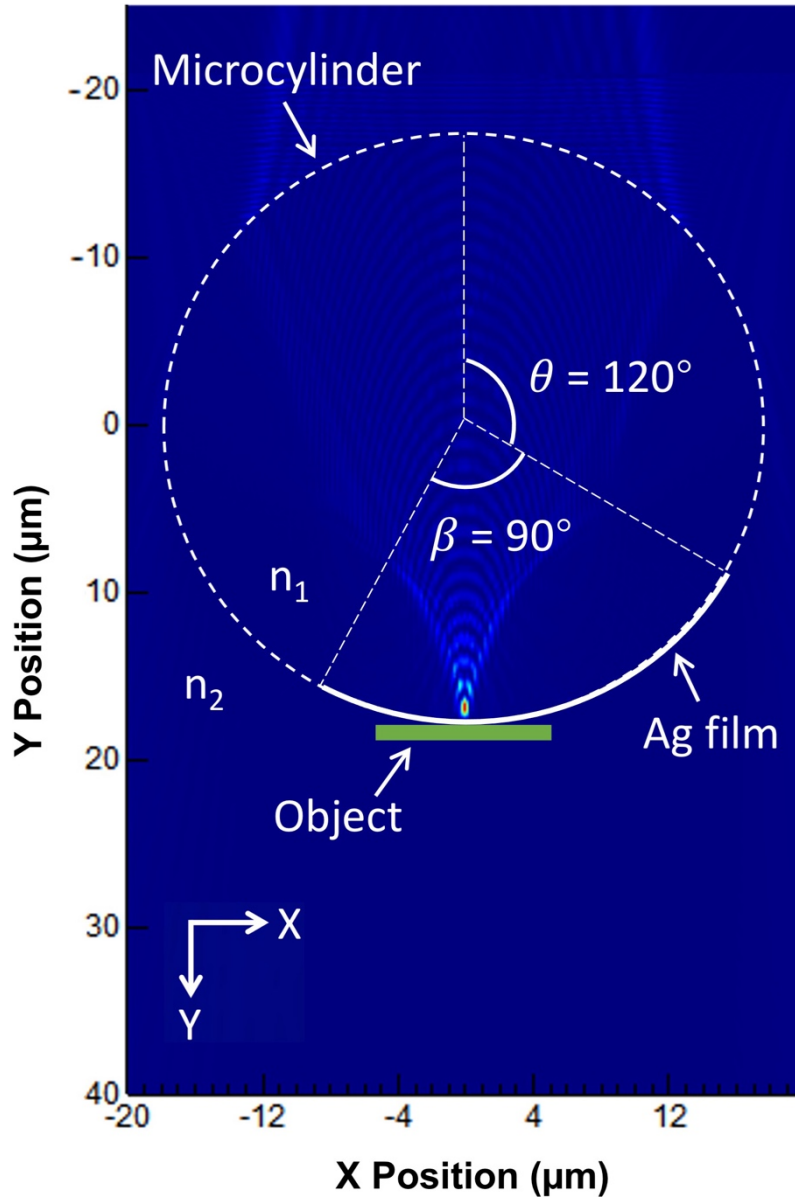


Figure S2. The FDTD-simulated light field of a 35 μm -diameter patchy cylinder ($n_1 = 1.9$) in air ($n_2 = 1.0$) partially covered with a 100 nm-thick Ag film, in which the incident light is reflected by the Ag film and cannot illuminate the observation sample. The Ag film has an opening angle β of 90° and a rotation angle θ of 120° .