



Figure 5.7: Imaging orbital angular momentum of Bessel beams. From left: (a) theoretical simulations of the interference pattern between a Bessel beam and a plane wave; (b) more realistic simulations that take in account the spherical wave front and Gaussian intensity profile of the interfering beam, as well as the intensity difference between the Gaussian beam and the Bessel beam; (c) photographs of colinear interference patterns between a Gaussian beam and a Bessel beam; (d) simulations for a Gaussian beam interfering with Bessel beams at an angle; and (e) photographs of interference patterns between a Gaussian beam and a Bessel beam at an angle. From top: for modes 1, 2, 3, 4, 5, and 10.