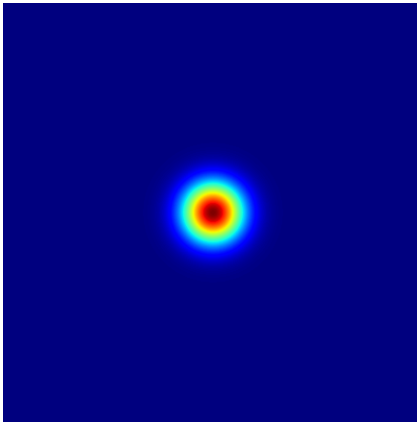
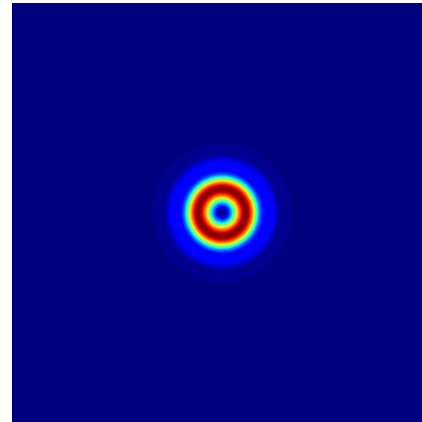


Gauss beam transformation to doughnut with spiral phase plate

intensity at $z = 0$ cm



intensity at $z = 100.0$ cm



phase distribution of the spiral phase plate
with order 1



LightPipes for Python,
Spiral_phase_plate.py

$\lambda = 500.00$ nm

$size = 10.00$ mm

$N = 501$

$w_0 = 1.00$ mm

$z = 100.00$ cm

$order = 1$

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