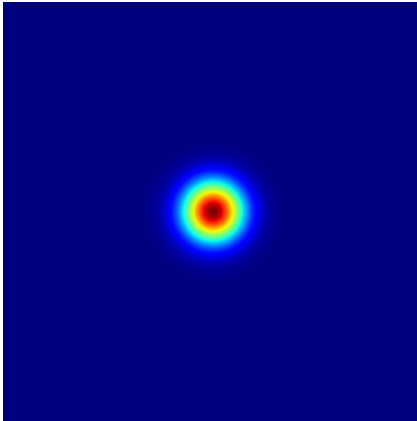
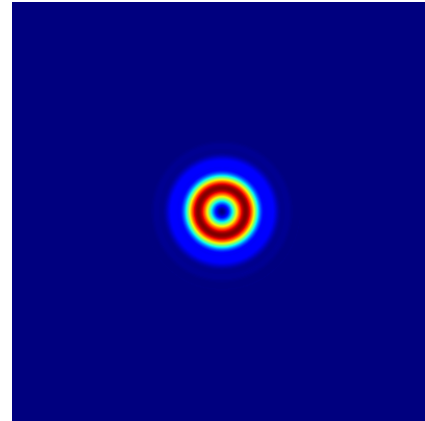


# Gauss beam transformation to doughnut with spiral phase plate

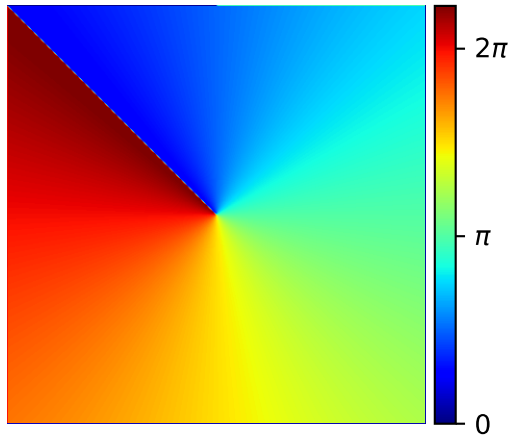
intensity at  $z = 0$  cm



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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