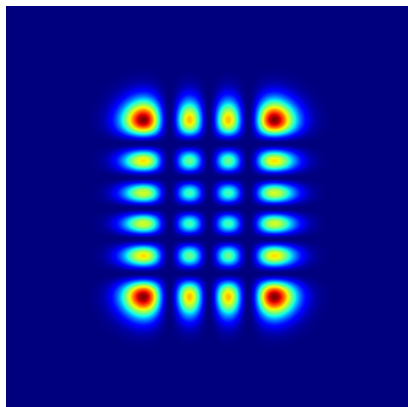
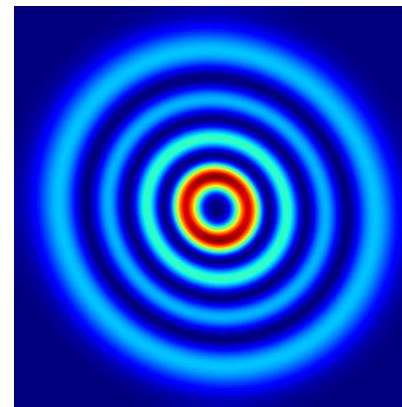


input intensity, HG<sub>53</sub>



output intensity



LightPipes for Python,  
LaserModeTransformer.py

size = 5.00 mm

$\lambda$  = 632.80 nm

N = 500

m = 5, n = 3

w0 = 0.393 mm

d1 = 525.0 mm

d2 = 306.0 mm

d3 = 195.0 mm (225 mm)

d4 = 206.0 mm (176 mm)

d5 = 26.9 mm (27 mm)

f1 = 20.0 mm

f2 = 172.0 mm (160 mm)

f3 = 19.0 mm

f4 = 19.0 mm

f5 = 20.0 mm

R1 = 600.0 mm

R2 = 437.0 mm

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Reference:

M.W. Beijersbergen, L. Allen, H.E.L.O. van der Veen and J.P. Woerdman,  
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Optics Comm. 96 (1993) 123.