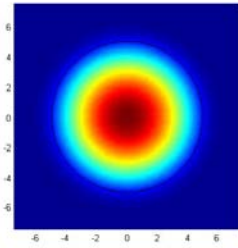
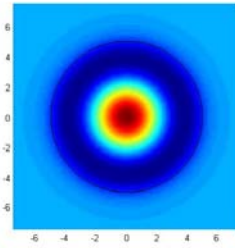


LP modes of a step index optical fiber

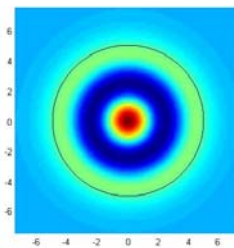
$$n_{\text{core}} = 1.47, n_{\text{cladding}} = 1.45, a = 5 \mu\text{m}$$
$$\lambda = 0.8 \mu\text{m}, V = 9.4900$$



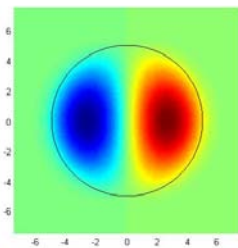
LP₀₀



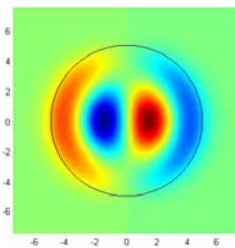
LP₀₁



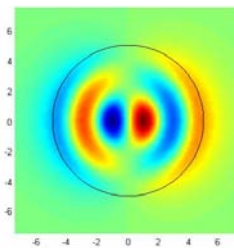
LP₀₂



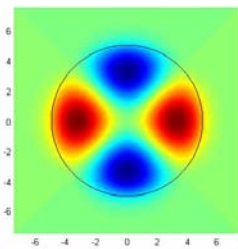
LP₁₁



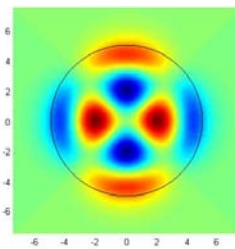
LP₁₂



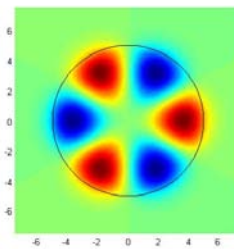
LP₁₃



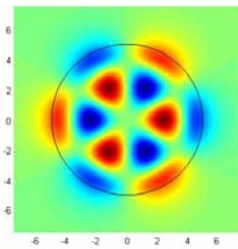
LP₂₁



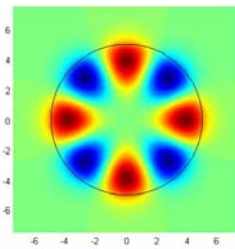
LP₂₂



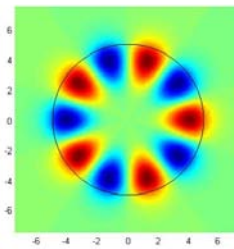
LP₃₁



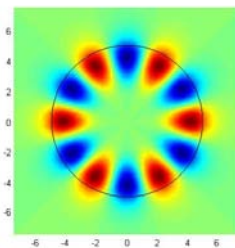
LP₃₂



LP₄₁



LP₅₁



LP₆₁