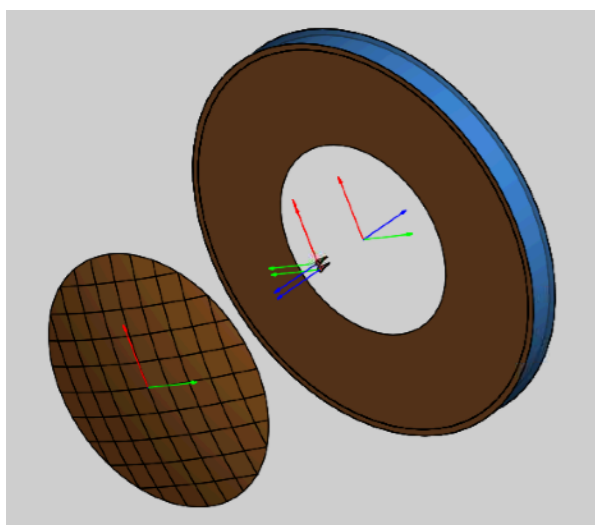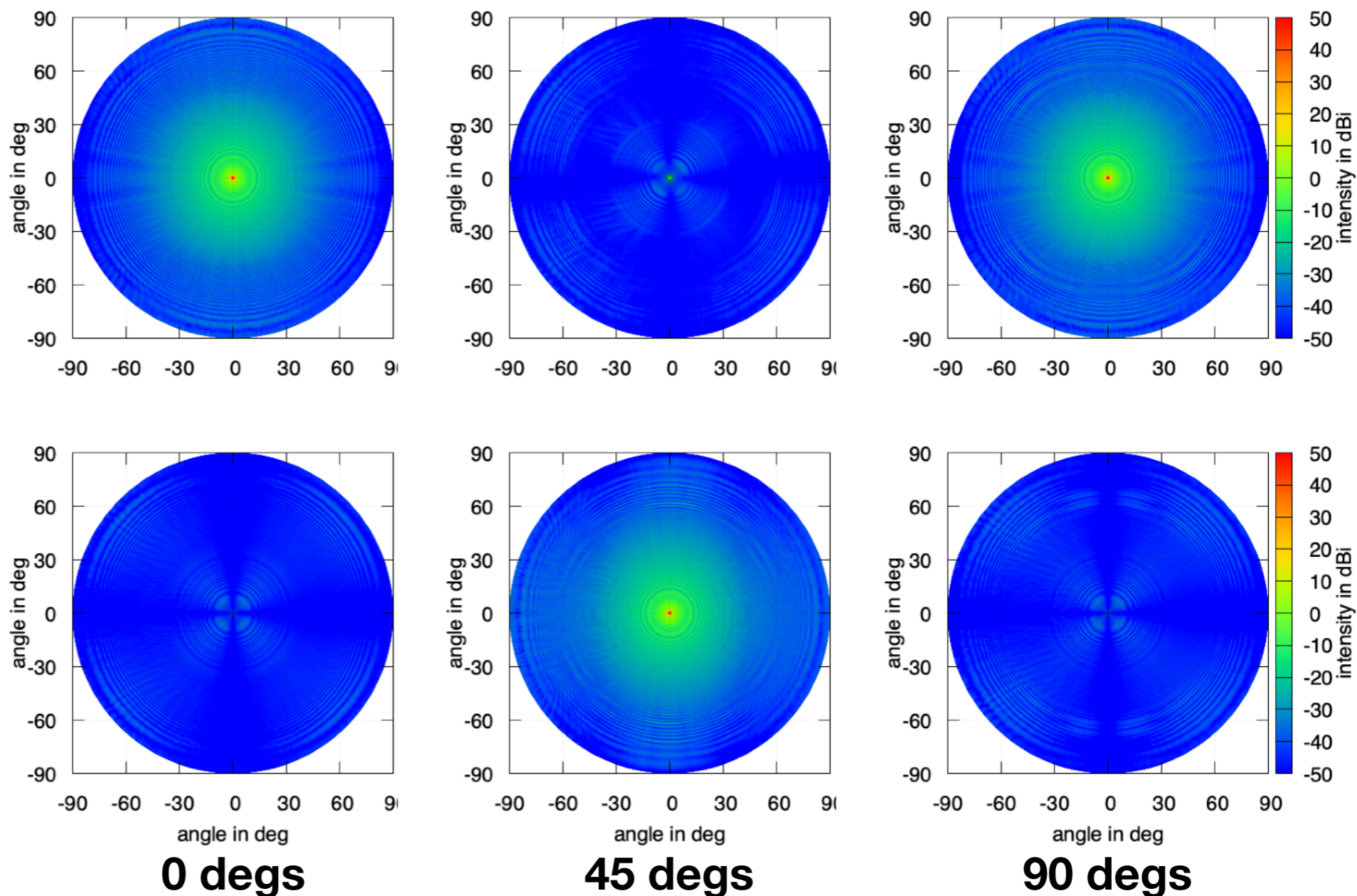# Beam Pattern Simulation Including a Wave Plate

Hiroaki Imada (LAL)

Simple telescope:
- one mirror
- aperture
- HWP at aperture
  - no=3.0, ne=3.3
  - no AR
- Gaussian beam

0 degs **45 degs** **90 degs**

Beam pattern as a function of the rotation angle of a HWP
upper: $|E_1|^2$, lower: $|E_2|^2$ (following the Ludwig's 3rd def.)