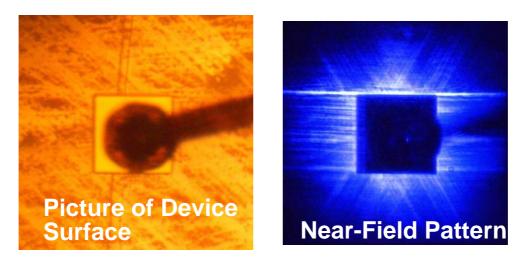
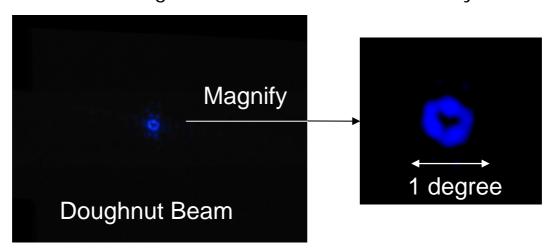
GaN Blue-Violet Photonic Crystal Surface-Emitting Laser



Near-field pattern after lasing oscillation. Central square ($100\mu mx100\mu m$) is electrode. Large area blue-violet lasing oscillation has been successfully achieved.



Far-field pattern (Beam Pattern). Reflecting large area oscillation, very narrow divergence angle (<1degree) has been obtained. Unique beam pattern, which could be focused much smaller than wavelengths, has been obtained.