



FIG. 5. Contour plot of the intensity $|h_x|^2$ in the xy plane corresponding to a localized diffraction-free beam of normalized propagation constant $\beta p = 8.503$ and transverse frequency $\gamma p = 2.008$ leading to $(k_{\parallel} p)_{max} = 8.737$. Intensity distributions along the coordinate axes are shown at the top and left sides. Inset: Isofrequency curve where shaded region corresponds to the excited spatial bandwidth.