

FIG. 1. Contour plots of the GISAXS intensity evolution along the Yoneda wing. The intensity maxima indicated by the dashed lines are related to the average center-to-center distance of adjacent islands as $L = 2\pi/q_y$. In _{.83}Al _{.17}N initially grew in a 3D mode for approximately 200 cycles, and then transitioned to 2D growth, as evidenced by the disappearance of the intensity maximum.

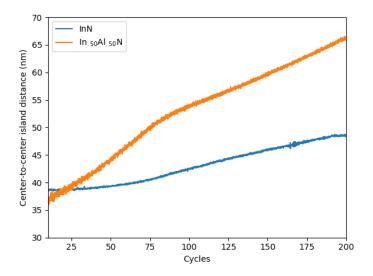


FIG. 2. Evolution of average center-to-center distance of adjacent islands for InN and In_{.50}Al_{.50}N. Island coarsening is increased significantly for the InAlN sample.