X-ray waveguiding studies of ordering phenomena in confined fluids
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[59] In-plane x-ray diffraction data (not shown) confirmed the formation of a close-packed structure.


[61] Least-square fits of the intensities integrated along cross-diagonal lines $\theta_e + \theta_i = \text{const}$. revealed that a 5% deviation of the coefficients $a_4$, $a_5$ and $a_6$ from their best-fit values causes the residuals to increase by 10% and some of the individual mode intensities to change by as much as 100%. We take a 5% deviation as our error margin on the above coefficients as well as on the coefficient $a_0$.

[62] In the measurements, rapid intensity modulations are seen, which we attribute to the formation of standing waves between the Al layers at much wider spacing.


[64] Our present planar waveguide does not support guided modes at gaps below $\sim 20$ nm.