

Supplemental Materials for "Scaling Behaviour of Low-Temperature Orthorhombic Domains in Prototypical High-Temperature Superconductor $\text{La}_{1.875}\text{Ba}_{0.125}\text{CuO}_4$ "

T. A. Assefa,¹ Y. Cao,^{1,2} J. Diao,³ R. J. Harder,⁴ W. Cha,⁴ K. Kisslinger,⁵
G. D. Gu,¹ J. M. Tranquada,¹ M. P. M. Dean,¹ and I. K. Robinson^{1,3}

¹*Condensed Matter Physics and Materials Science Department,
Brookhaven National Laboratory, Upton, New York 11973, USA*

²*Materials Science Division, Argonne National Laboratory, Lemont, IL 60439, USA*

³*London Center for Nanotechnology, University College London, London WC1E 6BT, UK*

⁴*Advanced Photon Source, Argonne, Illinois 60439, USA*

⁵*Center for Functional Nanomaterials, Brookhaven National Laboratory, Upton, NY 11973, USA*

I. SUPPLEMENTARY FIGURES

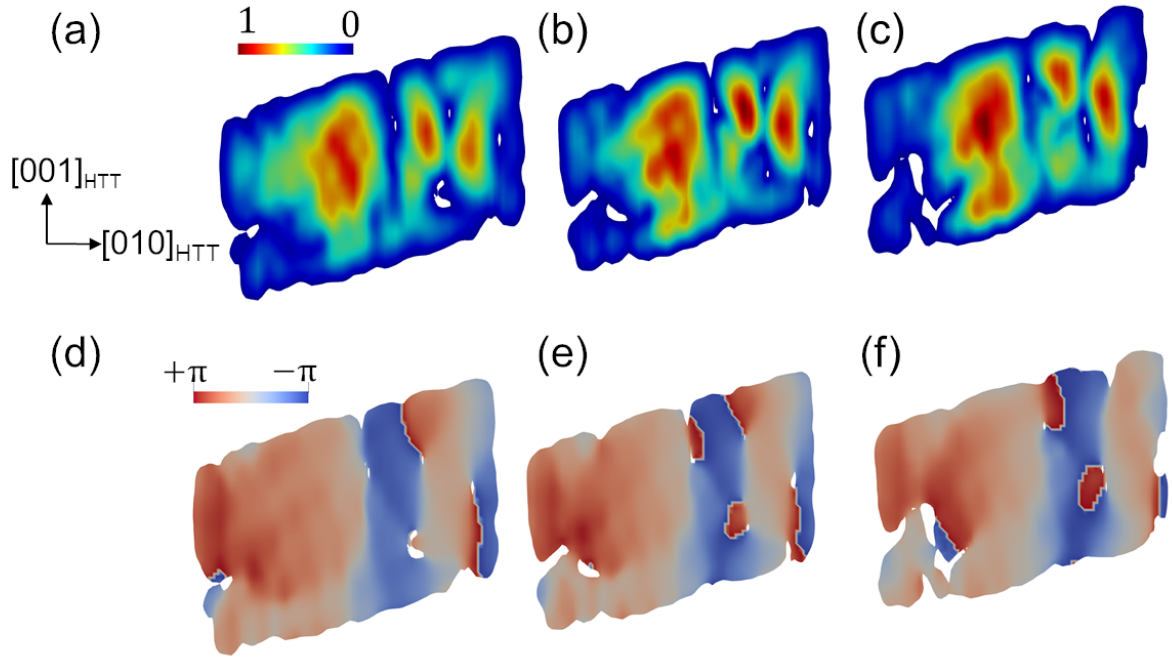


Figure S1. Two-dimensional slices of [100] plane of the 235 K data. The slices are taken at the same positions, as shown in Fig.4(a) of main manuscript. (a-c) and (d)-(f) are sliced at different positions of the crystal showing a map of the amplitude (electron density) and phase (projection of the lattice displacement) respectively.

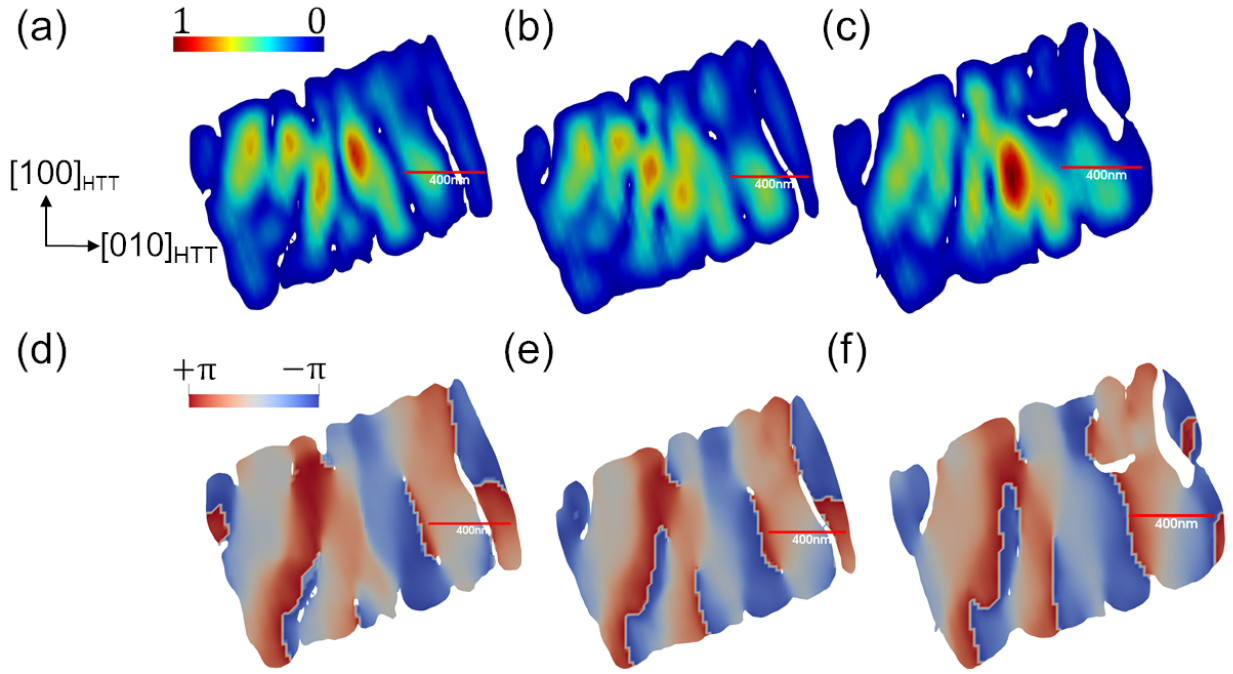


Figure S2. Two-dimensional slices of the [001] plane of the 228 K image. The slices are taken at different positions in the crystal, similar to those shown in Fig.4(a) of main manuscript. (a-c) and (d)-(f) are sliced at different positions of the crystal showing a map of the amplitude (electron density) and phase (projection of the lattice displacement) respectively.

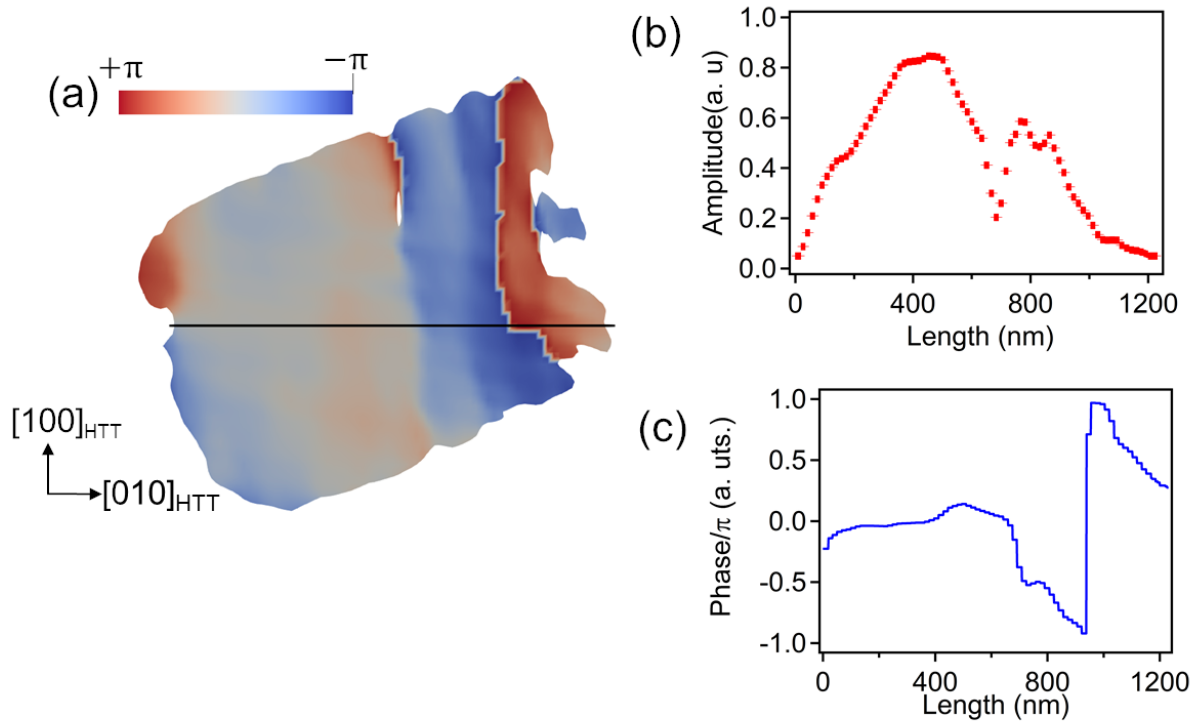


Figure S3. Two-dimensional slices of [001] plane of the 258 K data. (b) and (c) are line-profiles of the amplitude (electron density) and normalized phase (projection of the lattice displacement) along the [010]_{HTT} direction respectively. Black line shows the position where line-profile data is taken.

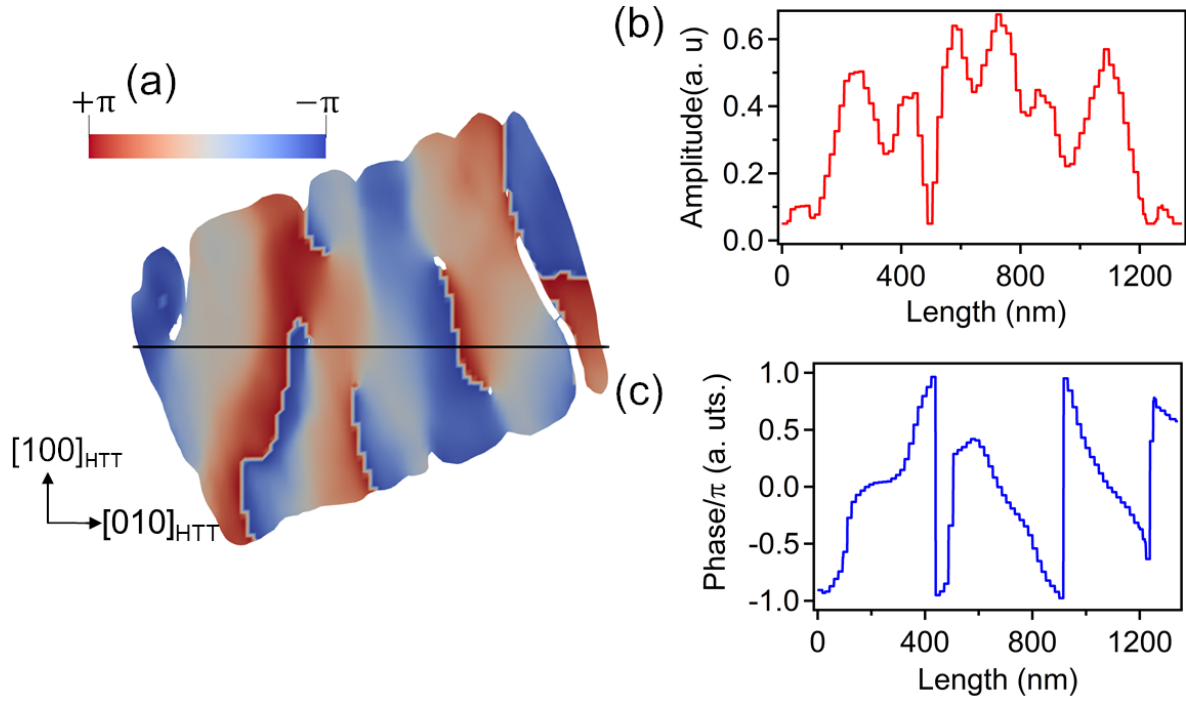


Figure S4. Two-dimensional slices of $[001]$ plane of the 228 K data. (b) and (c) are line-profiles of the amplitude (electron density) and normalized phase (projection of the lattice displacement) along the $[010]_{\text{HTT}}$ direction respectively. Black line shows the position where line-profile data is taken.