

# STEM images

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Supplementary information to the paper: "Microstructure and pinning properties of CSD-grown  $\text{SmBa}_2\text{Cu}_3\text{O}_{7-\delta}$  films with and without  $\text{BaHfO}_3$  nanoparticles"

The images were converted to scaled tiff files, which can be opened, e.g., with *Fiji* or *ImageJ*. The length calibration might be slightly affected by scanning distortions and TEM-software miscalibration.

The large-area LAADF-STEM image `SmBCO_LAADF_stitched.tif` was stitched from multiple images in Fiji using the `Grid/Collection Stitching` function based on the following publication:

S. Preibisch, S. Saalfeld, P. Tomancak (2009) "Globally optimal stitching of tiled 3D microscopic image acquisitions", *Bioinformatics*, **25** (11):1463-1465.