

## Aberration Corrected Imaging In Transmission Electron Microscopy

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Abstract High-resolution scanning transmission electron microscopy (HR-STEM) with spherical aberration correction enables researchers to peer into two-dimensional (2D) materials and correlate the...

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Aberration-corrected transmission electron microscopy allows us to image the structure of matter at genuine atomic resolution. A prominent role for the imaging of crystalline samples is played by the negative spherical aberration imaging (NCSI) technique. The physical background of this technique is reviewed.

~~Negative spherical aberration ultrahigh resolution imaging ...~~

Transmission Electron Aberration-Corrected Microscope is a collaborative research project between four US laboratories and two companies. The project's main activity is design and application of a transmission electron microscope with a spatial resolution below 0.05 nanometers, which is roughly half the size of an atom of hydrogen. The project is based at the Lawrence Berkeley National Laboratory in Berkeley, California and involves Argonne National Laboratory, Oak Ridge National Laboratory and

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The HD-2700 is an 80-200 kV field-emission-gun scanning transmission electron microscope (STEM) with secondary electron (SE) imaging capability. Bulk and surface structures of a specimen can be imaged simultaneously. With the option for a probe-forming aberration corrector, ultra-high resolution can be achieved for both STEM and SE imaging.

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