

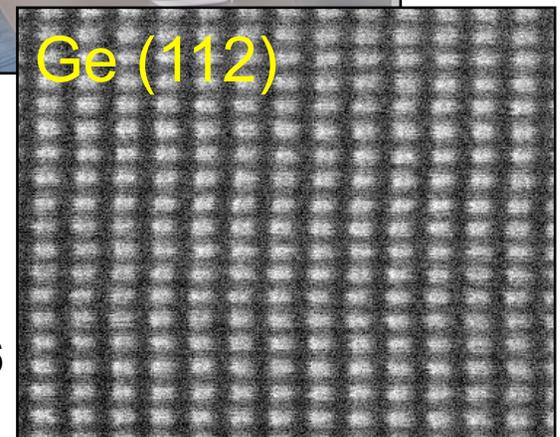
FEI Titan S Aberration-corrected TEM-STEM

Techniques/Capabilities:

- 300-kV Schottky field-emission gun (FEG)
- CEOS dodecapole probe (STEM) aberration corrector
- High-brightness, non-monochromated gun
- Post-column Gatan imaging filter (GIF)
- Gatan 794 retractable 1K X 1K CCD camera
- Fischione HAADF (Z-contrast) and Gatan BF/DF STEM detectors
- CompuStage SuperTwin lens ($\pm 30^\circ$ tilt)

Current Research Activities:

- Instrument initially provided as part of the TEAM (Transmission Electron Aberration-corrected Microscope) Project by the Office of Science, U.S. Department of Energy
- Principal TEAM task at ORNL is to demonstrate 0.05-nm STEM resolution and identify factors limiting resolution



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