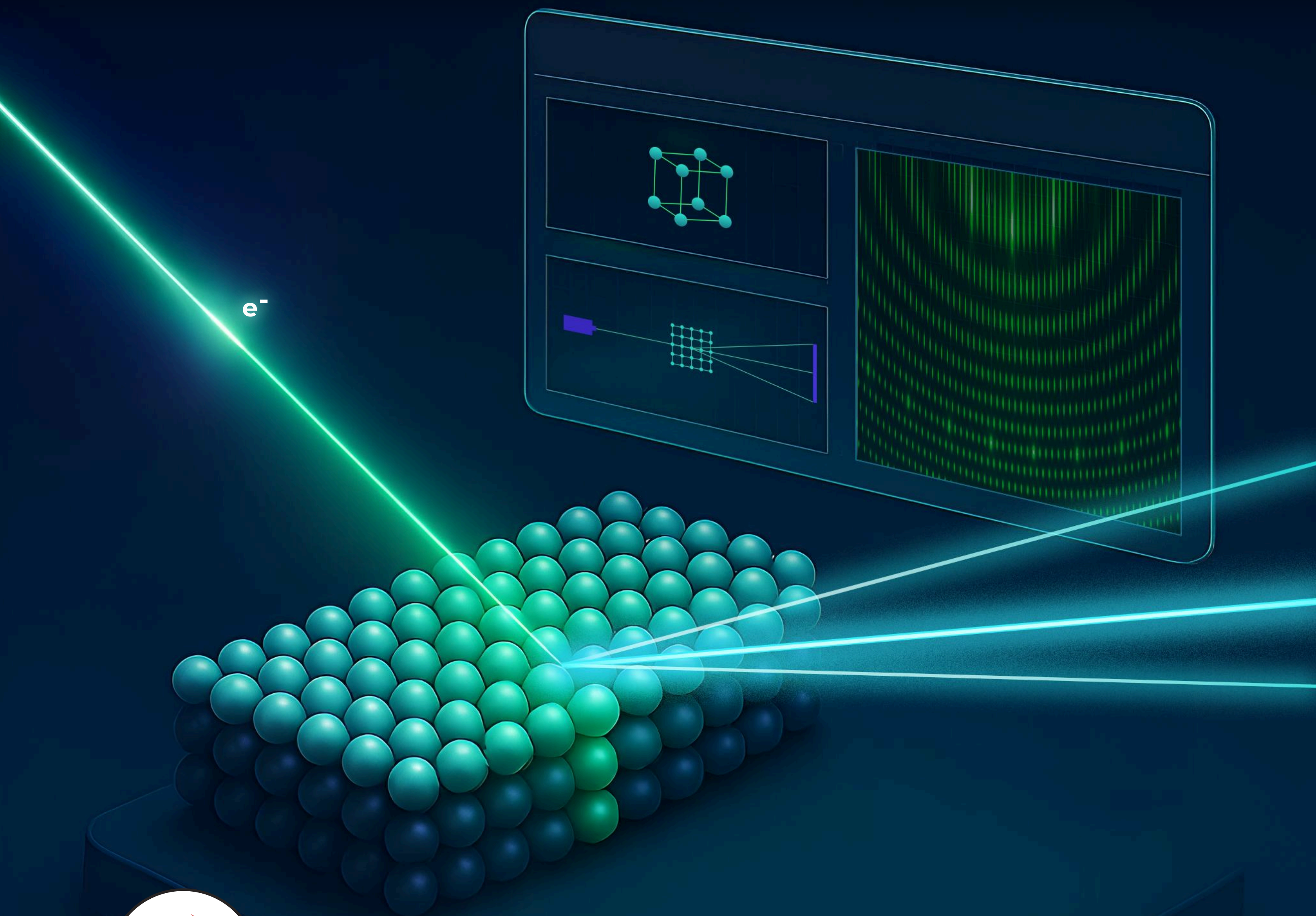


Introducing kSA RHEEDSim

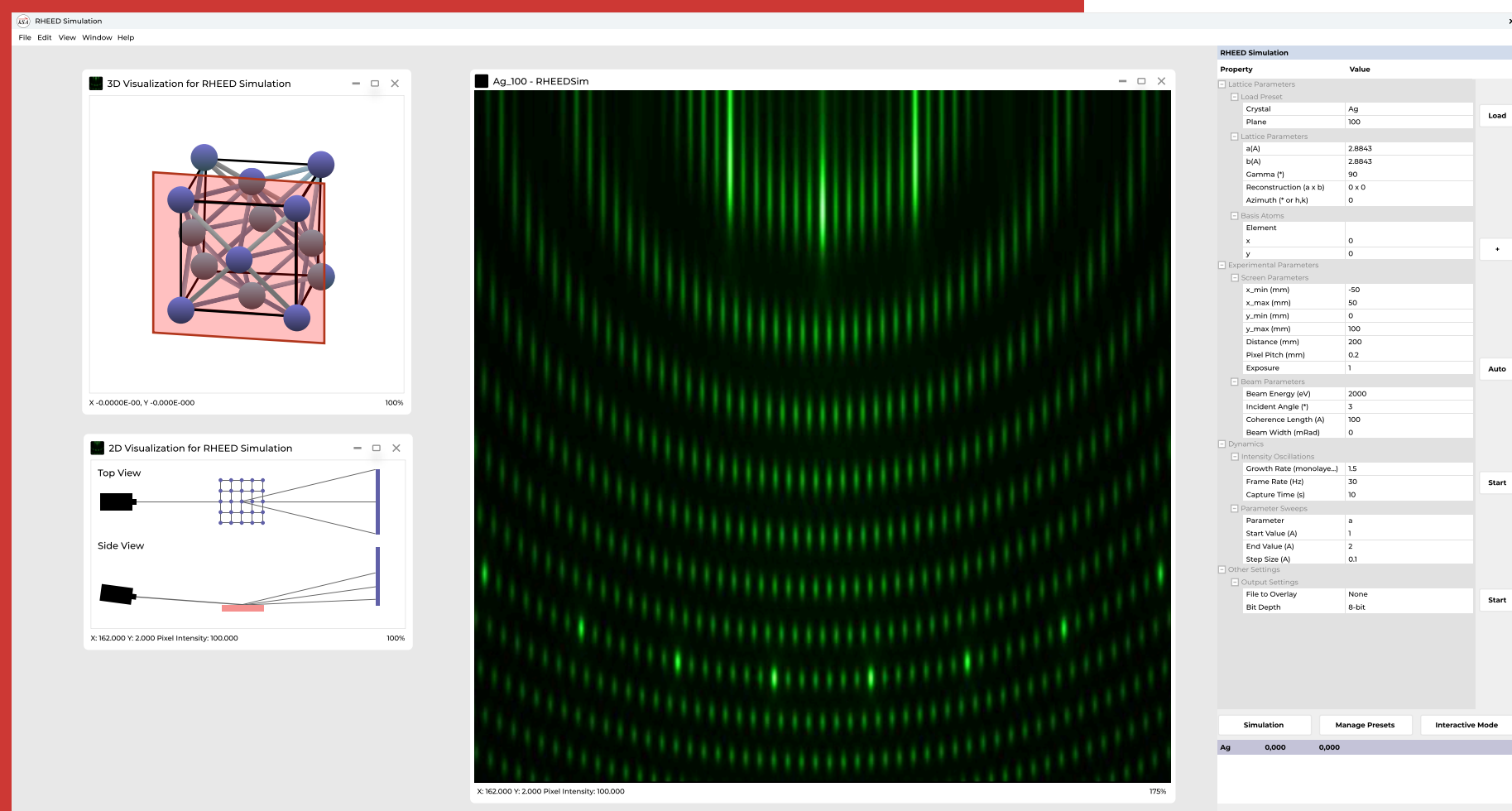
New RHEED Simulation Software from k-Space



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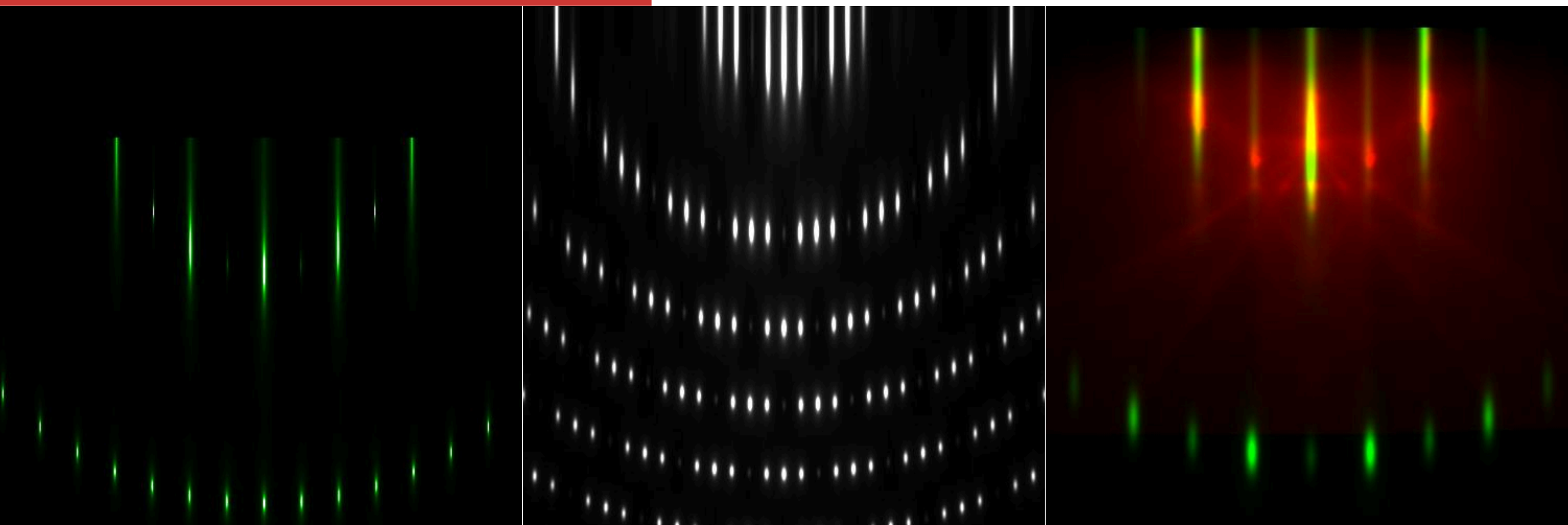




Simulate Any Surface. Understand Every Pattern.

kSA RHEEDSim is powerful, easy-to-use simulation software that gives you complete control over the parameters that shape your RHEED patterns. Simulate any crystal surface defined by a 2D lattice, from basic structures to complex surface reconstructions and dynamic phenomena.

Available as a standalone application, networked for classrooms and labs, or integrated with the kSA 400 Analytical RHEED System—the world's leading RHEED solution.



Built for Researchers. Ready for Students.

kSA RHEEDSim makes advanced RHEED simulation accessible to both experienced scientists and the next generation of materials researchers. Visualize structures in 2D and 3D, define custom surfaces, and explore dynamic phenomena—all in one intuitive interface.

Key Features and Capabilities

- Visualize 3D crystal structures and 2D surface orientation relative to the electron beam
- Simulate from presets, CIF crystal data, or manually defined surfaces
- Model surface reconstructions and intensity oscillations
- Run parameter sweeps to explore system behavior
- Overlay simulations with experimental RHEED images for direct comparison

