Quantum Detectors for Electron Diffraction

Igor Nederlof

ASI Amsterdam Scientific Instruments

Novel detectors, based on the Medipix family of chips developed in collaboration at CERN, have excelled the field of electron diffraction. The sensitivity and speed means novel samples can be studied that are prone to beam damage, for example macromolecules. I will discuss the impact these detectors have recently had, but also new developments for next-generation electron diffraction detector technology.