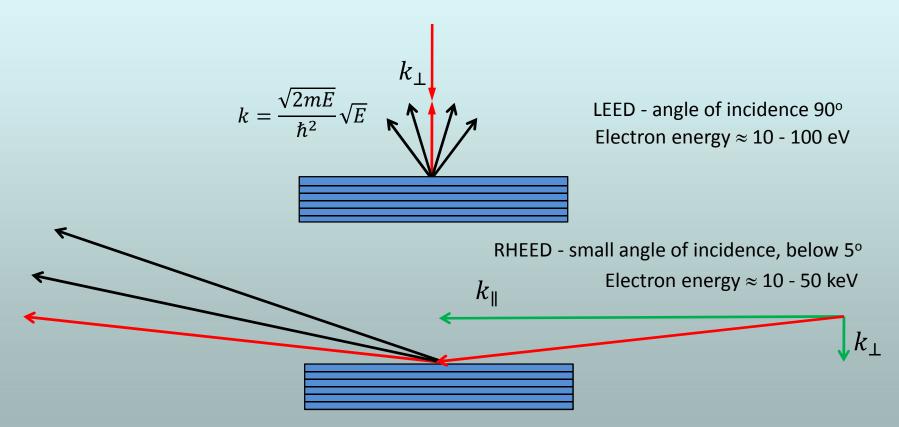






LEED and RHEED geometry

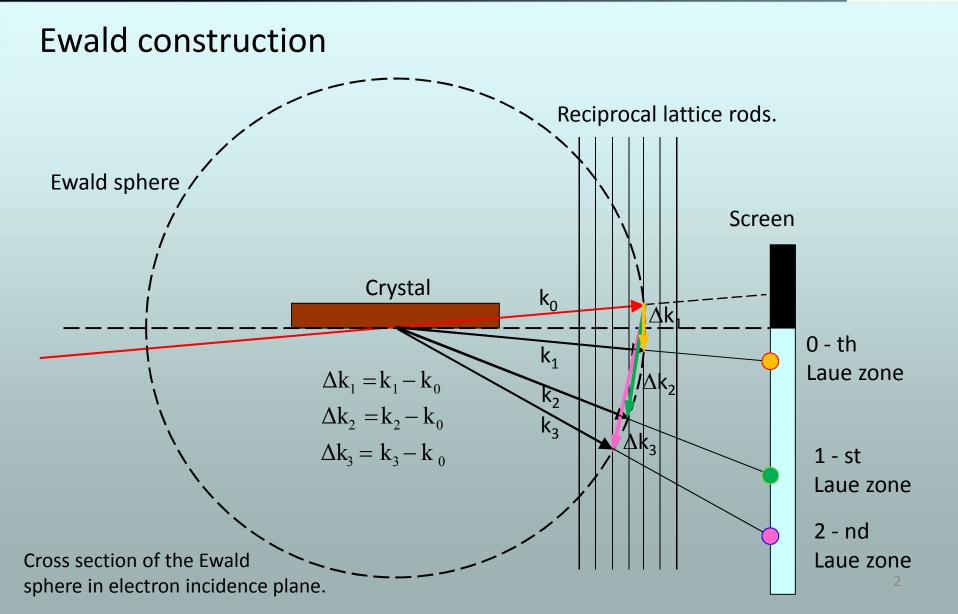


In RHEED, due to small angle of incidence, is the perpendicular component of the electron wavevector of the same range as in LEED.







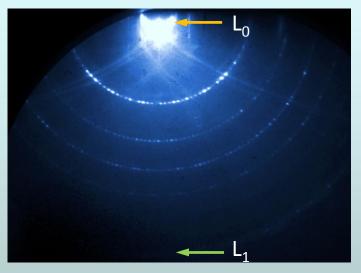


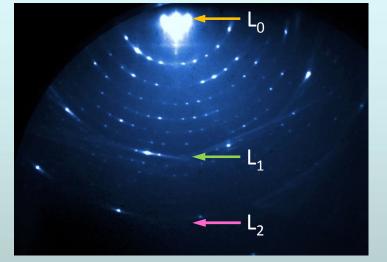


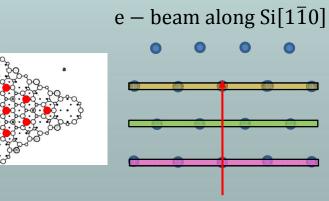




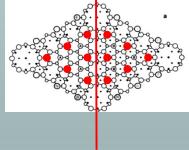
Laue Zones - Si(111)-7x7 RHEED pattern example



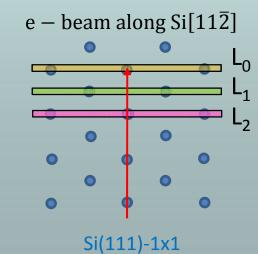




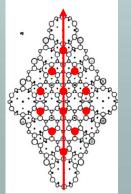
Si(111)-(1x1) reciprocal space



Si(111)-7x7 real space



reciprocal space

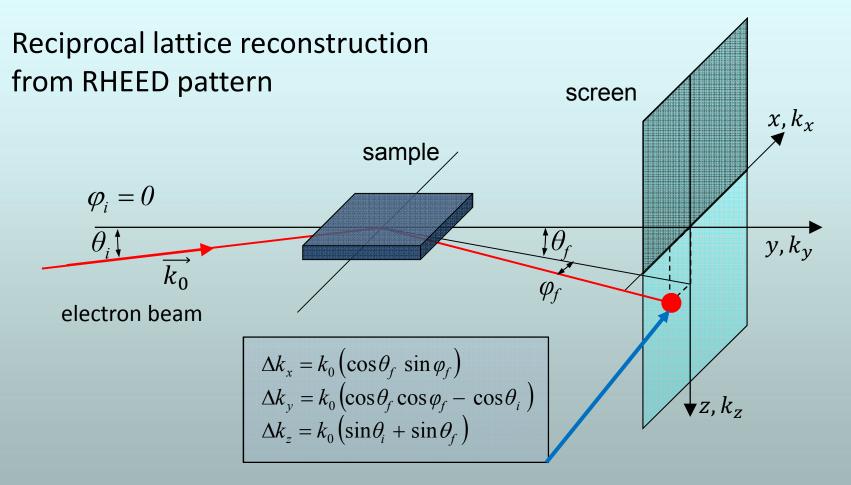


Si(111)-7x7 real space









To every point of the screen a reciprocal space coordinate may be prescribed

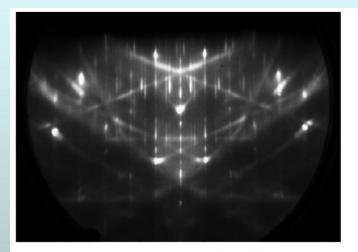


disordered surface





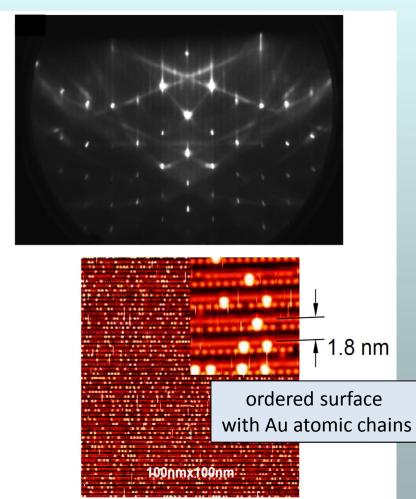
RHEED and STM images of Si(557) surface



COMPANY OF THE OWNER.

A REAL PROPERTY AND ADDRESS OF

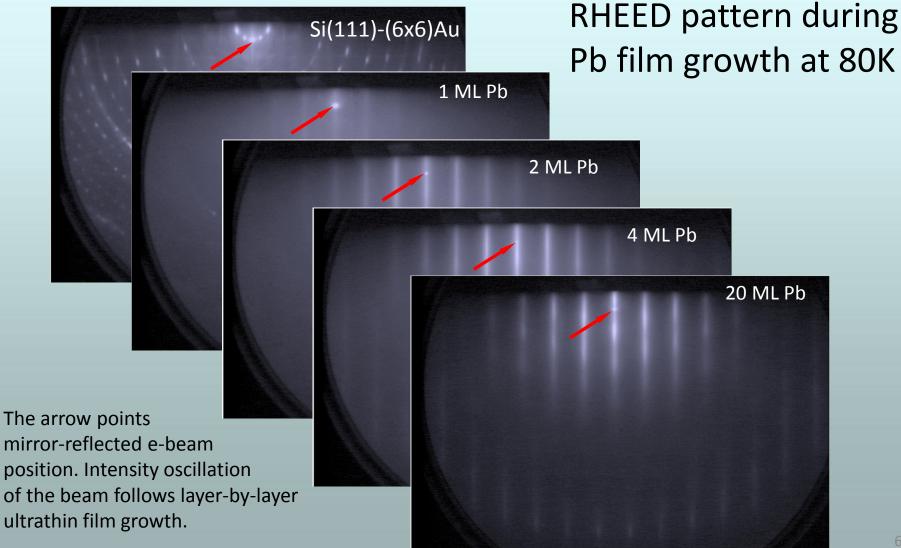
100nmx10

















RHEED oscillations

RHEED mirror-reflected electron beam intensity oscillations measurd durnig Pb ultrathin film growing on Si(111)-(6x6)Au surface in UHV conditions.

This experimental method allows precise control of the film thickness and its unformity, thus enables fabrication of metallic quantum wells.

See more details in:

M. Jałochowski, E. Bauer, *Quantum size* and surface effects in the electrical resistivity and high-energy electron reflectivity of ultrathin lead films, Phys. Rev. **B38**, 5272 (1988).

M. Jałochowski, E.Bauer, *Reflection high-energy electron diffraction intensity oscillations during the growth of Pb on Si(111)*, J. Appl. Phys. **63**, 4501 (1988)

