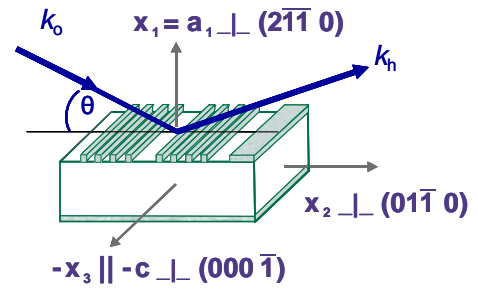


Using high-resolution x-ray diffraction measurements (HRXRD) with symmetric reflections thin film lattice parameters perpendicular to the sample surface can be won, in reference to the x-cut LiNbO₃ substrate with a relative accuracy of $(\Delta d/d)_{\perp} < 10^{-5}$.



In plane lattice parameters of the epitaxially grown Zn:LiNbO₃ thin films in respect to the substrate can be won from **reciprocal space maps (rsm)** recorded with asymmetric reflections. In this case one obtains a precision of $(\Delta d/d)_{\parallel} < 10^{-4}$.

