Fig. 4. Diffuse scattering patterns from SrTiO$_3$, collected at the photon energy of 15 keV ($\lambda = 0.8266$ Å) and the sample temperature 115 K. The cuts through the reciprocal space are at $hkl$, where $l = 0.5, 1.5$ and $2.5$ in the coordinate system corresponding to $Pm\bar{3}m$ ($Z = 1$).