Reflection is produced by the Be plates of the sample holder.

For both profiles, (111) profile on the right wing of the 311 due to the non-uniform carbon loading in the pd host lattice is seen circles: 220 profile, open circles: 311 profile. The typical asymmetry normalised to the same intensity and plotted versus b/q\textsuperscript{\text{\textit{\textit{\textit{)}}}}}.

Full comparison of X-ray line profiles of carburised nano-Pdcx