

## Tables

The tables are compilation of near-backscattering reflections in Si, Ge, Lithium Niobate ( $\text{LiNbO}_3$ ), Sapphire ( $\text{Al}_2\text{O}_3$ ) and Quartz ( $\text{SiO}_2$ ) in the angular range of  $70^\circ$  to  $90^\circ$ . Tables are divided into two groups of crystals Si and Ge at the top (underplayed in yellow), Lithium Niobate, Sapphire and Quartz at the bottom. Within these two groups reflections are arranged from top to bottom by strength, according to the integrated reflectivity  $\int I_R d\Theta$ . For Lithium Niobate, Sapphire and Quartz all equivalent reflections are listed, while for Si and Ge equivalent reflections are only listed if their indices are not simple permutations or inversions of the parent reflection.

For the present calculations, some crystallographic data were taken from the software package "XOP"<sup>8)</sup>, atomic scattering factors were taken from the database at the Center for X-Ray Optics (CXRO) at Lawrence Berkeley Nat'l Lab<sup>9)</sup>.

## References

- <sup>8)</sup> Sanchez del Rio and R. J. Dejus, "Status of XOP: an x-ray optics software toolkit" SPIE Proceedings Vol. 5536 (2004) pp.171-174, <http://dx.doi.org/10.1117/12.560903>
- <sup>9)</sup> B.L. Henke, E.M. Gullikson, and J.C. Davis. "X-ray interactions: photoabsorption, scattering, transmission, and reflection at  $E=50\text{-}30000$  eV,  $Z=1\text{-}92$ ", Atomic Data and Nuclear Data Tables Vol. **54** (no.2), 181-342 (July 1993).