



**Figure 93:** The Brillouin zone for the face-centered cubic (fcc) lattice. The reciprocal lattice is a body-centered cubic (bcc) lattice, and the Brillouin zone is a truncated octahedron with center at  $\Gamma$ . Also shown are some of the labels that are traditionally given to the special points in the zone. The irreducible Brillouin zone is the yellow polyhedron with corners at  $\Gamma$ , X, U, L, W, and K.