



Figure 2: Wannier-like orbital for the conduction band of the high temperature superconductor $\text{HgBa}_2\text{CuO}_4$, plotted in the CuO_2 -plane. This orbital has Cu $d_{x^2-y^2}$ symmetry and extends over several neighboring oxygen (*) and copper (+) sites. It was computed with the third-generation linear muffin-tin orbital (LMTO) method, using the local density approximation (LDA).