



|                  | charge             | dopants  | structure                               | hamiltonian                     |
|------------------|--------------------|----------|---|---------------------------------|
| HgO <sub>δ</sub> | balances -2 charge | supplies | harbors dopants                         | tunes chemical potential        |
| BaO              | neutral            | inert    | protects CuO <sub>2</sub> from disorder | tunes in-plane $t$ , $t'$ , $U$ |
| CuO <sub>2</sub> | -2 charge/u.c.     | accepts  | roughly sets lattice const.             | superconducts                   |
| BaO              |                    |          | (same as other CaS layer)               |                                 |