





T^4
 $\{x, y, z, w\}$
 coord.
 4 dim'l
 torus

- 1 0-handles
- 4 1-handles $\left\{ \begin{array}{l} \{x, y\} \cup \{z, w\} \end{array} \right.$
- 6 2-handles $\left\{ \begin{array}{l} \{x, z\} \cup \{y, w\} \end{array} \right.$
- 4 3-handles $\left\{ \begin{array}{l} \{x, w\} \cup \{y, z\} \end{array} \right.$
- 1 4-handle