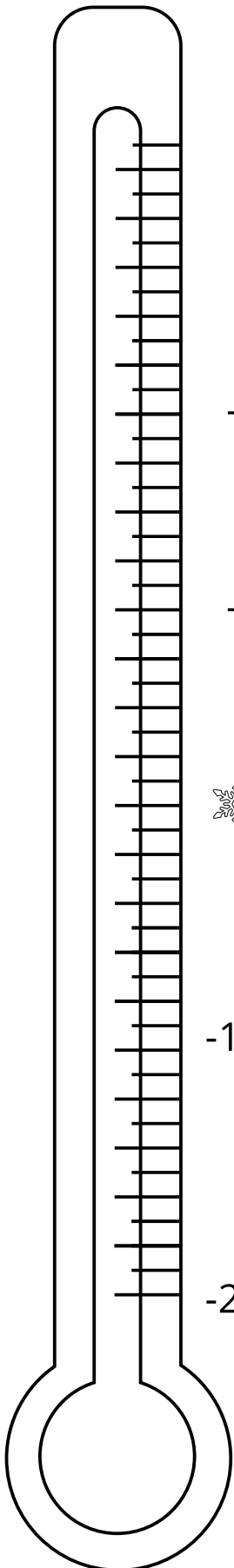


# Cooling

In order to work, superconductors  
have to be very, very cold.

Many of them have to be colder than  $-200^{\circ}\text{C}$ !



$37^{\circ}\text{C}$  - body temperature

$21^{\circ}\text{C}$  - room temperature

$0^{\circ}\text{C}$  - freezing point of water

$-18^{\circ}\text{C}$  - inside a freezer

$-89^{\circ}\text{C}$  - coldest temperature recorded outside on Earth

$-180^{\circ}\text{C}$  - Yttrium barium copper oxide superconducts

$-273^{\circ}\text{C}$  - the coldest possible temperature