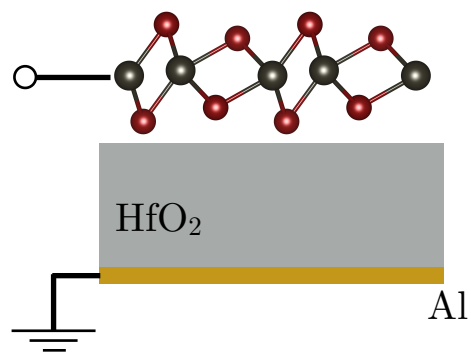
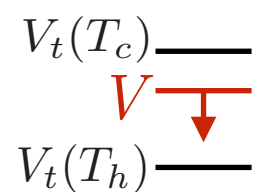
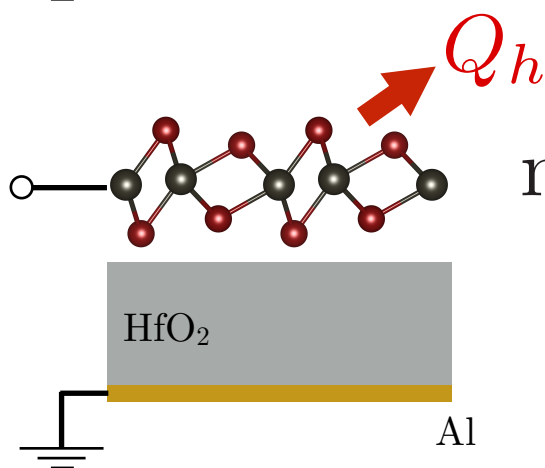
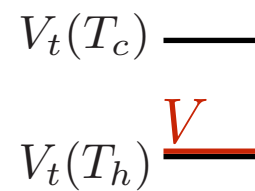
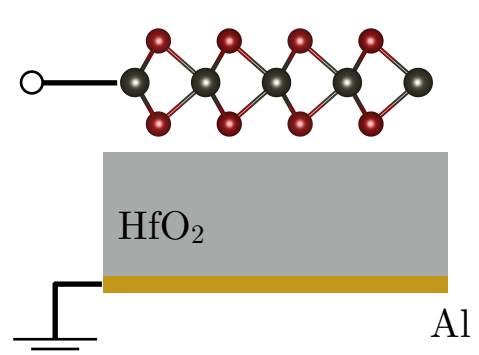
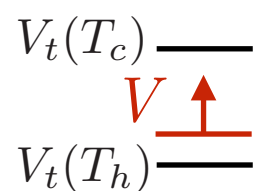


**a****1**

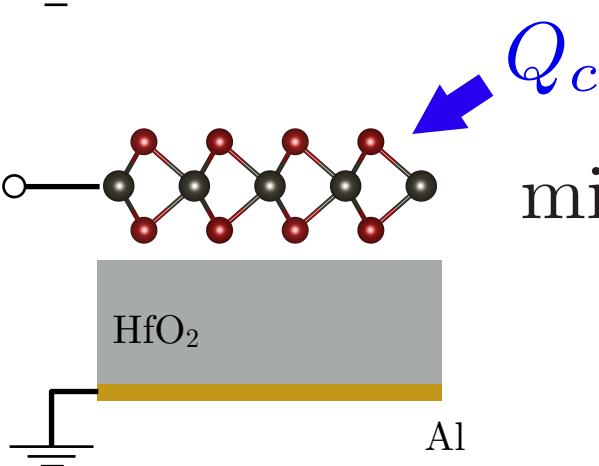
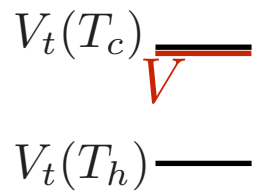
$1T' \rightarrow \text{mixed}$   
 $\Delta S = 0$

**2**

$\text{mixed} \rightarrow 2H$   
 $\Delta S < 0$

**3**

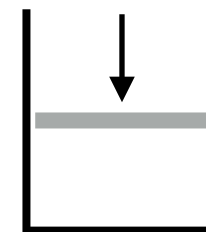
$2H \rightarrow \text{mixed}$   
 $\Delta S = 0$

**4**

$\text{mixed} \rightarrow 1T'$   
 $\Delta S > 0$

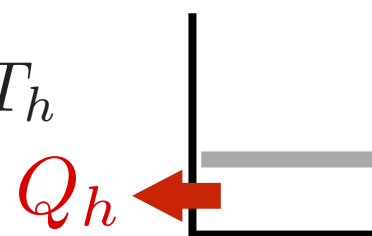
**b**

$T_c \leq T \leq T_h$



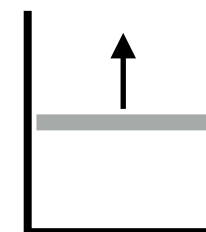
adiabatic  
compression

$T = T_h$



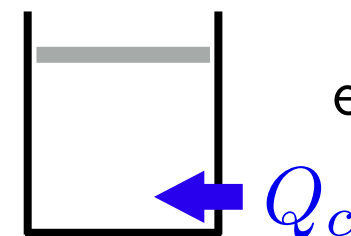
condensation

$T_c \leq T \leq T_h$



adiabatic  
expansion

$T = T_c$



evaporation