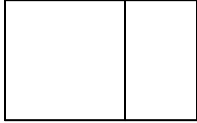


Phy 410
Quiz #6, March 6, 2009



S1

S2

- (i) **The temperature of *S1* is τ_1 and that of *S2* is τ_2 and $\tau_1 > \tau_2$. Which direction the energy flows?**

From 1 to 2

- (ii) **Two systems are at the same temperature but can now exchange particles. If $\mu_2 > \mu_1$, which directions the particles flow?**

From 2 to 1

- (iii) **The two systems are at the same temperature. $N_1 \gg N_2$ but $\mu_1 < \mu_2$. Which directions the particles flow?**

From 2 to 1

