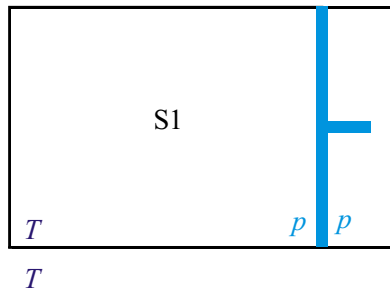


3.16 Thermodynamic Contacts: Temperature and pressure are defined by the surrounding area



S2: The world, a heat bath, ...
Exchange of heat energy ΔQ
and pressure work ΔW

Established by the system:

- T_1
- p_1
- fixed particle number N
- V : volume
- μ : chemical potential
- S : entropy

$\Rightarrow \text{State}(p, N, T)$

- Examples:
- Gas at fixed pressure
 - Chemical reactions in an open chamber cooled in a heat bath