Osmotic pressure.

$$\frac{\partial P_\nu}{\partial t} = \phi_\nu(P_1, \dots, P_\ell)$$

Entropy:

$$S = \frac{\overline{E}}{T} + 2\varkappa \log\left(\int e^{-\frac{E}{2\varkappa T}} \, dP_1 \cdots dP_\ell\right).$$

$$E = E(P_1, \dots, P_\ell).$$