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$$\delta \int \left[\left(\frac{d\varphi}{dx} \right)^2 + c \frac{\varphi^2}{\sqrt{x}} \right] dx = 0$$

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$$-2 \frac{d^2 \varphi}{dx^2} + c \frac{5}{2} \frac{\varphi^{\frac{5}{2}}}{\sqrt{x}} = 0$$

$$m_N = c U^{\frac{3}{2}}$$
$$n_p = c (U-V)^{\frac{3}{2}}$$

$$(\Delta - \lambda) U = 0$$
$$(\Delta - \lambda) U = m_N$$
$$\Delta V = 0$$
$$n_p = c (U-V)^{\frac{3}{2}}$$

$$\frac{\partial U}{\partial x} + \dots + U^{\frac{3}{2}} + c U^{\frac{3}{2}}$$
$$- \frac{U^{\frac{3}{2}}}{n} + \left(\frac{\partial V}{\partial x} \right) + \dots$$